



SDR & FPGA  
Solution Provider

# Puzhi Product Guide

## ARM/FPGA Solution Provider



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## I Puzhi Electronic Technology (Shanghai) Co.Ltd

# About Us

Puzhi Electronic Technology (Shanghai) Co. was Founded in 2017, Located in Shanghai, China.

Puzhi Offers an Extensive Portfolio of FPGA/SoC Focused Standard System-on Modules (SOMs), FPGA Development Boards and FMC Cards, Covered the Full Range of Xilinx and China FPGA Chips, Wide Range of Technical Support, Solutions on Industrial Control, Medical, Intelligent AI, and Image Processing.

Puzhi has Another Brand PZSDR Focus on Software Defined Radio Products and Solution, Apply on Drones, Spectrum Monitoring, Radar, GPS/GNSS, Testing Measurement, Network Security, IoT/M2M.

## Brand



Specialized in FPGA Product  
Solution Design



Specialized in SDR Product  
Solution Design

## Certification



ISO9001



RoHS

## Product Customisation

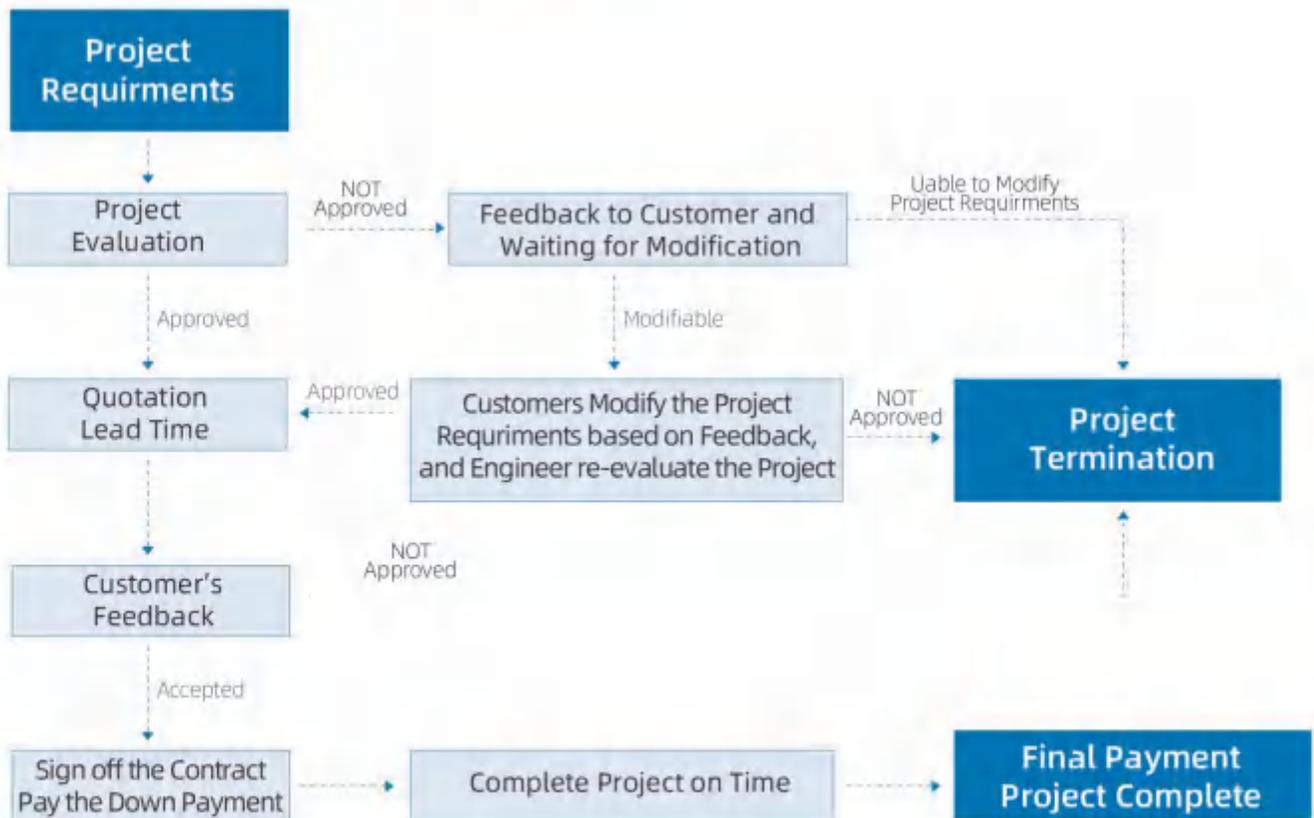
Provide customised services for enterprises and research institutes, designing hardware and software according to customers' needs.

## Scope of Customised Services



Hardware Circuit | Logical Design | Linux Underlying Driver | Embedded Software | AI Algorithm

## Product Customization Process



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## **ZYNQ7000 Series**

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PZ7010-SOM	XC7Z010	07
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PZ7010S-SOM	XC7Z010	08
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## FPGA SOM

### ZYNQ UltraScale + Series

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PZ-ZU7EV-SOM	XCZU7EV	14
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PZ-ZU9EG-SOM	XCZU9EG	15
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### Artix UltraScale + Series

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### Kintex-7 Series

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### Kintex UltraScale Series

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PZ7045F-SOM	FMQL45T900	27
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## FPGA Board

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PZ7035-KFB-676	XC7Z035-676	33
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### Artix UltraScale + Series

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### Kintex-7 Series

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PZ-K7410T-KFB	XC7K410T	52
PZ-K7325T-FH-KFB	XC7K325T	53
PZ-K7410T-FH-KFB	XC7K410T	53

## FPGA Board

### Kintex UltraScale Series

PZ-KU040-KFB	XCKU040	54
PZ-KU060-KFB	XCKU060	54
PZ-KU040-FHT-KFB	XCKU040	55
PZ-KU060-FHT-KFB	XCKU060	55

### Kintex UltraScale + Series

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### Virtex7 Series

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### Virtex UltraScale + Series

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## SDR/ FMC/ Modules

### Software Defined Radio

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P203Mini	ZYNQ7020+AD9363	62
P201Pro	ZYNQ7020+AD9361	63
P203Pro	ZYNQ7020+AD9363	63
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### FMC Cards

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PZ-FL8710F	LAN8710	70
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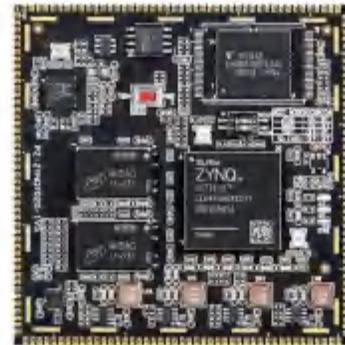
### Add-on Modules

PZ7606	AD7606	72
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PZ5640-D	OV5640	73
PZ5640-M	OV5640	73
PZ-SSD	-	74
PZ-ECAT58100	AX58100	74

## PZ7010-SOM

### SPECIFICATION

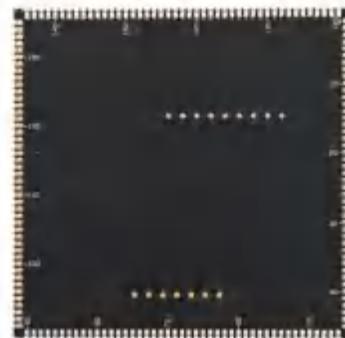
FPGA Chip	XC7Z010-2CLG400I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 667Mhz
Logic Cells	28K
Look up Tables	17600
Flip-Flops	35200
DSP Slice	80
BLOCK RAM	2.1Mb
DDR3/DD3L	512MB/ 16bit
QSPI FLASH	128Mb
EMMC	4GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	2
Number of IO	24 IOs on the PS Side, 94 IOs on the PL Side
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	2.40 inch x 2.40 inch (61mm x 61mm)
Voltage/ Current	5V/1A



2.40 inch (61 mm)

1.27mm

2.40 inch (61 mm)



## PZ7020-SOM

### SPECIFICATION

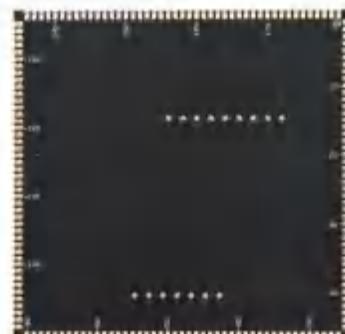
FPGA Chip	XC7Z020-2CLG400I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 766Mhz
Logic Cells	85K
Look up Tables	53200
Flip-Flops	106400
DSP Slice	220
BLOCK RAM	4.9Mb
DDR3/DD3L	1GB/ 32bit
QSPI FLASH	128Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	2
Number of IO	24 IOs on the PS Side, 118 IOs on the PL Side
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	2.40 inch x 2.40 inch (61mm x 61mm)
Voltage/ Current	5V/1A



2.40 inch (61 mm)

1.27mm

2.40 inch (61 mm)



## PZ7010S-SOM

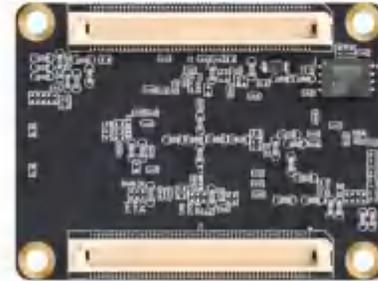
### SPECIFICATION

FPGA Chip	XC7Z010-2CLG400I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 667Mhz
Logic Cells	28K
Look up Tables	17600
Flip-Flops	35200
DSP Slice	80
BLOCK RAM	2.1Mb
DDR3/DD3L	512MB/ 16bit
QSPI FLASH	256Mb
Gigabit Ethernet Chip	1
User LED	2
Number of IO	30 IOs on PS Side (24 fixed 1.8V, 6 fixed 3.3V) 92 IOs on PL Side (1.8/2.5/3.3V adjustable, default 3.3V)
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	2.36 inch x 1.77 inch (60mm x 45mm)
Voltage/ Current	5V/1A



1.77 inch (45 mm)

2.36 inch (60 mm)



## PZ7020S-SOM

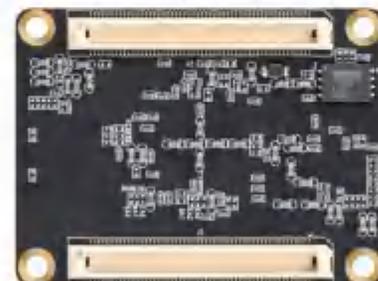
### SPECIFICATION

FPGA Chip	XC7Z020-2CLG400I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 766Mhz
Logic Cells	85K
Look up Tables	53200
Flip-Flops	106400
DSP Slice	220
BLOCK RAM	4.9Mb
DDR3/DD3L	1GB/ 32bit
QSPI FLASH	256Mb
Gigabit Ethernet Chip	1
User LED	2
PS Side MIO	30 IOs on PS Side (24 fixed 1.8V, 6 fixed 3.3V)
PL Side IO	116 IOs on PL Side (1.8/2.5/3.3V adjustable, default 3.3V)
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	2.36 inch x 1.77 inch (60mm x 45mm)
Voltage/ Current	5V/1A



1.77 inch (45 mm)

2.36 inch (60 mm)



## PZ7015-SOM

### SPECIFICATION

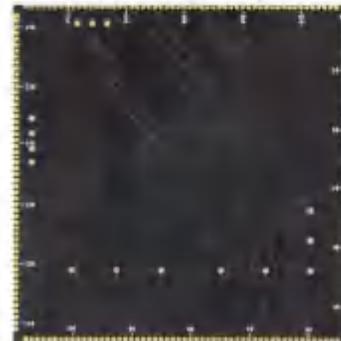
FPGA Chip	XC7Z015-2CLG485I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 766Mhz
Logic Cells	74K
DSP slice	160 (18 x 25MACCs)
DDR3/DD3L	1GB/ / 32bit
QSPI FLASH	128Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
USB2.0	1-way, Master / Slave Interface Compatible
User LED	2
Number of IO	12 IOs on PS, 140 IOs on PL (1.8/2.5/3.3V adjustable)
Number of GTX Ports	1 BANK, 4 Pairs of TX/RX Each
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	2.28 inch x 2.28 inch (58mm x 58mm)
Voltage/ Current	5V/1A



2.28 Inch (58 mm)

1.0mm

2.28 inch (58 mm)



## PZ7030-SOM-676

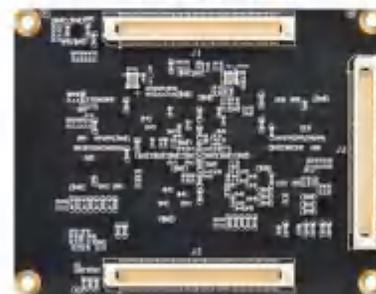
### SPECIFICATION

FPGA Chip	XC7Z030-2FFG676I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 800Mhz
Logic Cells	125K
Look up Tables	78600
Flip-Flops	157200
DSP slice	400
BLOCK RAM	9.3Mb
DDR3/DD3L	1GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	3
Number of IO	24 IOs on PS Side, 164 IOs on PL (48 IOs fixed 1.8V; 96 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Number of GTX	1 BANK, 4 pairs of TX/RX each
Voltage/ Current	5V/3A
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



2.55 inch (64.8 mm)

3.30 inch (83.8 mm)



## PZ7035-SOM-676

### SPECIFICATION

FPGA Chip	XC7Z035-2FFG676I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 800Mhz
Logic Cells	275K
Look up Tables	171900
Flip-Flops	343800
DSP slice	900
BLOCK RAM	17.6Mb
DDR3/DD3L	1GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	3
Number of IO	24 IOs on PS Side, 164 IOs on PL (48 IOs fixed 1.8V, 96 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Number of GTX	2 BANK, 8 Pairs of TX/RX Each
Voltage/ Current	5V/3A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



2.55 inch (64.8 mm)

3.30 inch (83.8 mm)



## PZ7035-SOM-900

### SPECIFICATION

FPGA Chip	XC7Z035-2FFG900I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 800Mhz
Logic Cells	275K
Look up Tables	171900
Flip-Flops	343800
DSP slice	900
BLOCK RAM	17.6Mb
DDR3/DD3L	1GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	5
Number of IO	24 IOs on PS Side, 240 IOs on PL (48 IOs fixed 1.8V, 192 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Number of GTX	4 BANK, 16 Pairs of TX/RX Each
Voltage/ Current	12V/3A
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



2.55 inch (64.8 mm)

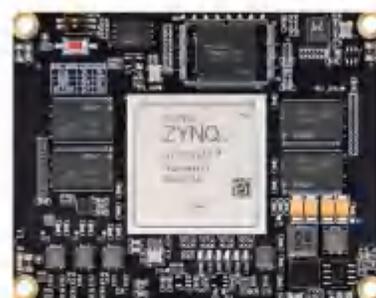
3.30 inch (83.8 mm)



## PZ7045-SOM-900

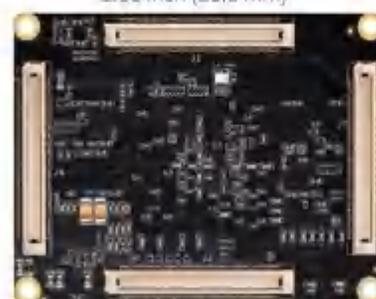
### SPECIFICATION

FPGA Chip	XC7Z045-2FFG900I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 800Mhz
Logic Cells	350K
Look up Tables	218600
Flip-Flops	437200
DSP slice	900
BLOCK RAM	19.2Mb
DDR3/DD3L	1GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	5
Number of IO	24 IOs on PS Side, 240 IOs on PL (48 IOs fixed 1.8V; 192 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Number of GTX	4 BANK, 16 Pairs of TX/RX Each
Voltage/ Current	12V/3A
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



2.55 inch (64.8 mm)

3.30 inch (83.8 mm)



## PZ7100-SOM-900

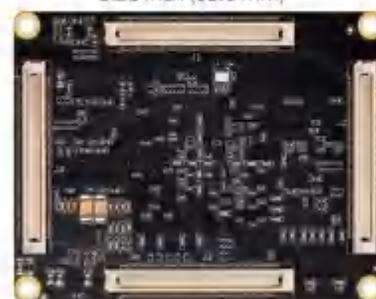
### SPECIFICATION

FPGA Chip	XC7Z100-2FFG900I
ARM Processor Core	Dual Core ARM Cortex-A9, Main Frequency 800Mhz
Logic Cells	444K
LUTS/Flip-Flops	277400
DSP slice	2020
BLOCK RAM	26.5Mb
DDR3/DD3L	1GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	5
Number of IO	24 IOs on PS Side, 240 IOs on PL (48 IOs fixed 1.8V; 192 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Number of GTX	4 BANK, 16 Pairs of TX/RX Each
Voltage/ Current	12V/3A
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



2.55 inch (64.8 mm)

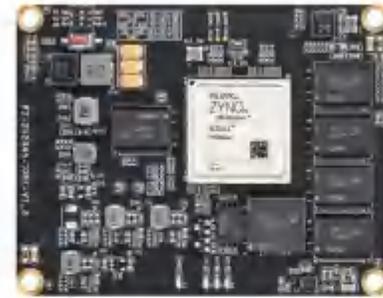
3.30 inch (83.8 mm)



## PZ-ZU2CG-SOM

### SPECIFICATION

FPGA Chip	XCZU2CG-25FVC784I
ARM Processor Core	2 x Cortex-A53 1.2Ghz, 2 x Cortex-R5 500Mhz
Logic Cells	103K
CLB Flip-Flops	94K
CLB LUTs	47K
BLOCK ROM	5.3Mb
DSP Slices	240
DDR4	4GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD/EMMC, Default SD Startup
Gigabit Ethernet Chip	1
User LED	3
Reset KEY	1
PS Side GTR	4 Pairs of TX/RX
Number of IO	38 IOs on PS Side, 192 IOs on PL (96 IOs 1.2/1.8V Adjustable Default 1.8V; 96 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Voltage/ Current	5V/3A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)
Connector Height	3mm



2.55 inch (64.8 mm)

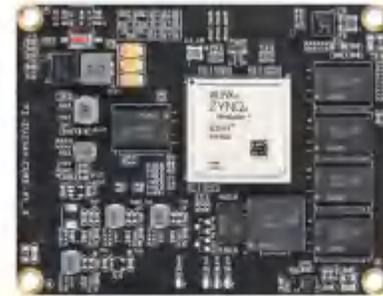
3.30 inch (83.8 mm)



## PZ-ZU3EG-SOM

### SPECIFICATION

FPGA Chip	XCZU3EG-25FVC784I
ARM Processor Core	4 x Cortex-A53 1.2Ghz, 2 x Cortex-R5 500Mhz
Logic Cells	154K
CLB Flip-Flops	141K
CLB LUTs	71K
BLOCK ROM	7.6Mb
DSP Slices	360
DDR4	4GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD/EMMC, Default SD Startup
Gigabit Ethernet Chip	1
User LED / Reset KEY	3/ 1
PS Side GTR	4 Pairs of TX/RX
Number of IO	38 IOs on PS Side, 192 IOs on PL (96 IOs 1.2/1.8V Adjustable Default 1.8V; 96 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Voltage/ Current	5V/3A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)
Connector Height	3mm



2.55 inch (64.8 mm)

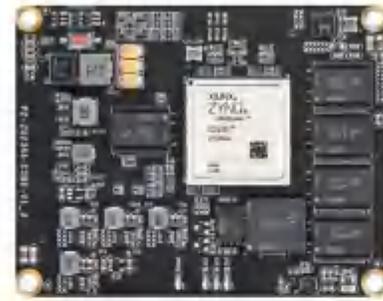
3.30 inch (83.8 mm)



## PZ-ZU4EV-SOM

### SPECIFICATION

FPGA Chip	XCZU4EV-25FVC7B4I
ARM Processor Core	4 x Cortex-A53 1.3Ghz, 2 x Cortex-R5 533Mhz
Logic Cells	192K
CLB Flip-Flops	176K
CLB LUTs	88K
BLOCK ROM	4.5Mb
UltraRAM	13.5Mb
DSP Slices	728
Video Codec	H264/H265
DDR4	4GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD/EMMC, Default SD Startup
Gigabit Ethernet Chip	1
User LED / Reset KEY	3/1
PS GTR / PL GTH	4 Pairs of TX/RX / 4 Pairs of TX/RX
Number of IO	38 IOs on PS Side, 192 IOs on PL (96 IOs 1.2/1.8V Adjustable Default 1.8V; 96 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Voltage/ Current	5V/3A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



2.55 inch (64.8 mm)

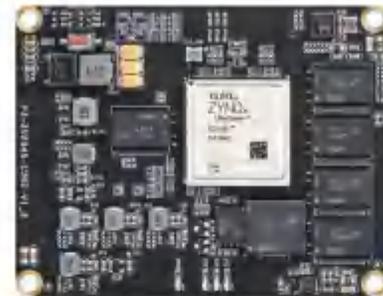
3.30 inch (83.8 mm)



## PZ-ZU5EV-SOM

### SPECIFICATION

FPGA Chip	XCZU5EV-25FVC7B4I
ARM Processor Core	4 x Cortex-A53 1.3Ghz, 2 x Cortex-R5 533Mhz
Logic Cells	256K
CLB Flip-Flops	234K
CLB LUTs	117K
BLOCK ROM/ UltraRAM	5.1Mb/18Mb
DSP Slices	1248
Video Codec	H264/H265
DDR4	4GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD/EMMC, Default SD Startup
Gigabit Ethernet Chip	1
User LED / Reset KEY	3/1
PS GTR / PL GTH	4 Pairs of TX/RX / 4 Pairs of TX/RX
Number of IO	38 IOs on PS Side, 192 IOs on PL (96 IOs 1.2/1.8V Adjustable Default 1.8V; 96 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Voltage/ Current	5V/3A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



2.55 inch (64.8 mm)

3.30 inch (83.8 mm)



## PZ-ZU7EG-SOM

SPECIFICATION	
FPGA Chip	XCZU7EG-2FFVC1156I
ARM Processor Core	ARM: 4 x Cortex-A53 (1.3Ghz) RPU: 2 x Cortex-R5 (533Mhz) GPU: Mali-400MP2 (667Mhz)
Logic Cells, LUTs	504K, 230K
Flip-Flops	461K
BLOCK ROM/ UltraRAM	11Mb / 27Mb
DSP Slices	1728
DDR4/DDR4L	PS 4GB 2400Mhz*64bit / PL 4GB 2400Mhz*64bit
QSPI FLASH	256Mb QSPD + 256Mb QSPI1
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD/EMMC, On-board DIP Switch Selection
Gigabit Ethernet Chip	1 (PS Side)
User LED	3 LEDs ( PL Side, High ON Low OFF )
Number of IO	MIO: 38 IOs ( Fixed 1.8V ) HP: 144 IOs ( 1.2/1.8V Adjustable, Default 1.8V ) HD: 48 IOs ( 1.8/2.5/3.3V Adjustable, Default 3.3V )
PS GTR / PL GTH	4 Pairs of TX/RX / 20 Pairs of TX/RX
Voltage/ Current	8-12V/5A ( Recommended Voltage 8V )
Form Factors	3.35 inch x 2.95 inch (85 mm x 75mm)
Connector Height	4mm



2.95 inch (75 mm)

3.35 inch (85 mm)



## PZ-ZU7EV-SOM

SPECIFICATION	
FPGA Chip	XCZU7EV-2FFVC1156I
ARM Processor Core	ARM: 4 x Cortex-A53 (1.3Ghz) RPU: 2 x Cortex-R5 (533Mhz) GPU: Mali-400MP2 (667Mhz)
Logic Cells, LUTs	504K, 230K
Flip-Flops	461K
DDR4/DDR4L	PS 4GB 2400Mhz * 64bit / PL 4GB 2400Mhz*64bit
QSPI FLASH	256Mb QSPD + 256Mb QSPI1
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD/EMMC, On-board DIP Switch Selection
Gigabit Ethernet Chip	1 (PS Side)
User LED	3 LEDs ( PL Side, High ON Low OFF )
Number of IO	MIO: 38 IOs ( Fixed 1.8V ) HP: 144 IOs ( 1.2/1.8V Adjustable, Default 1.8V ) HD: 48 IOs ( 1.8/2.5/3.3V Adjustable, Default 3.3V )
PS GTR / PL GTH	4 Pairs of TX/RX / 20 Pairs of TX/RX
Voltage/ Current	8-12V/5A ( Recommended Voltage 8V )
Chip Level	Industrial Grade (-40°C ~ +85°C)
Form Factors	3.35 inch x 2.95 inch (85 mm x 75mm)
Connector Height	4mm



2.95 inch (75 mm)

3.35 inch (85 mm)



## PZ-ZU11EG-SOM

### SPECIFICATION

FPGA Chip	XCZU11EG-2FFVC1156I
ARM Processor Core	ARM: 4 x Cortex-A53 (1.3Ghz) RPL: 2 x Cortex-R5 (533Mhz) GPU: Mali-400MP2 (667Mhz)
Logic Cells, LUTs	653K, 299K
Flip-Flops	597K
DDR4/DDR4L	PS 4GB 2400Mhz * 64bit / PL 4GB 2400Mhz*64bit
QSPI FLASH	256Mb QSP0 + 256Mb QSP1
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD/EMMC, On-board DIP Switch Selection
Gigabit Ethernet Chip	1 (PS Side)
User LED	3 LEDs ( PL Side, High ON Low OFF )
Number of IO	MI0: 38 IOs ( Fixed 1.8V )
	HP: 144 IOs ( 1.2/1.8V Adjustable, Default 1.8V )
	HD: 48 IOs ( 1.8/2.5/3.3V Adjustable, Default 3.3V )
PS GTR / PL GTH	4 Pairs of TX/RX / 20 Pairs of TX/RX
Voltage/ Current	8-12V/ 5A ( Recommended Voltage 8V )
Chip Level	Industrial Grade ( -40°C ~ +85°C )
Form Factors	3.35 inch x 2.95 inch (85 mm x 75mm)
Connector Height	4mm



2.95 inch (75 mm)

3.35 inch (85 mm)



## PZ-ZU9EG-SOM

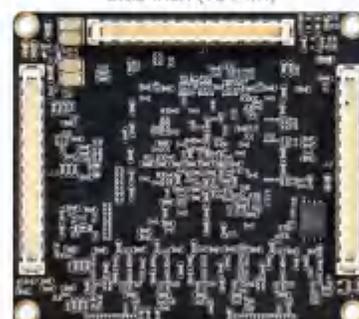
### SPECIFICATION

FPGA Chip	XCZU9EG-2FFVB1156I
ARM Processor Core	4 x Cortex-A53 1.333Ghz, 2 x Cortex-R5F 533Mhz
GPU	Mali™ -400 MP2, 667Mhz
Logic Cells	600K
Look up Tables	274K
Flip-Flops	548K
Block RAM	32.3 Mb
DSP Slices	2520
DDR4	4GB on PS Side/2GB on PL Side
EMMC	8GB
QSPI FLASH	256Mb QSP0 + 256Mb QSP1
Start-up Mode	JTAG/QSPI/SD/EMMC, Default SD Startup
Gigabit Ethernet Chip	1
Number of IO	38 IOs on PS Side ( Fixed 1.8V ), 192 IOs on PL ( 96 IOs, 1.2/1.8V Adjustable, Default 1.8V; 96 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V )
GTH	6 BANK, Total 24 Pairs of TX/ RX, Up to 16.25Gb/s
Voltage/ Current	8-12V / 4A
Form Factors	3.35 inch x 2.95 inch (85 mm x 75mm)



2.95 inch (75 mm)

3.35 inch (85 mm)



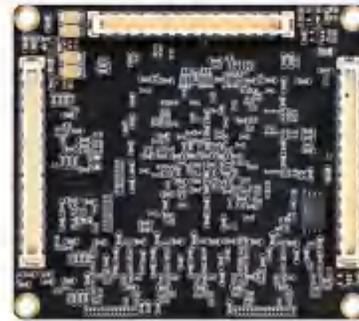
## PZ-ZU15EG-SOM

SPECIFICATION	
FPGA Chip	XCZU15EG-2FFVB1156I
ARM Processor Core	4 x Cortex-A53 1.333Ghz, 2 x Cortex-R5F 533Mhz
GPU	Mali™ -400 MP2, 667Mhz
Logic Cells	747K
Look up Tables	341K
Flip-Flops	682K
Max.DistributedRAM	11.3Mb
Block RAM	26.2Mb
Ultra RAM (Mb) / DSP Slices	31.5Mb/ 3528
DDR4	4GB on PS Side/2GB on PL Side
EMMC	8GB
QSPI FLASH	256Mb QSPI0 + 256Mb QSPI1
Start-up Mode	JTAG/QSPI/SD/EMMC, Default SD Startup
Gigabit Ethernet Chip	1
Number of IO	38 IOs on PS Side (Fixed 1.8V), 192 IOs on PL (96 IOs, 1.2/1.8VAdjustable, Default 1.8V; 96 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
GTH	6 BANK, Total 24 Pairs of TX/ RX, Up to 16.25Gb/s
Voltage/ Current	B-12V/4A
Form Factors	3.35 inch x 2.95 inch (85 mm x 75mm)



2.95 inch (75 mm)

3.35 inch (85 mm)



## PZ-ZU19EG-SOM

SPECIFICATION	
FPGA Chip	XCZU19EG-2FFVC1760I
ARM Processor Core	4 x Cortex-A53 1.333Ghz, 2 x Cortex-R5F 533Mhz
GPU	Mali™-400 MP2, 667Mhz
Logic Cells	1143K
Look up Tables	1045K
Flip-Flops	523K
Max.DistributedRAM	9.8Mb
Block RAM	34.6Mb
Ultra RAM (Mb)/DSP Slices	36.0Mb/1968
DDR4/EMMC	8GB on PS Side (with ECC)/8GB on PL Side
QSPI FLAS	512Mb QSPI0 + 512Mb QSPI1
Start-up Mode	JTAG/SD/QSPI/EMMC, Default SD Startup
Gigabit Ethernet Chip	1
Number of IO	38 IO on PS Side (Fixed 1.8V) 336 IOs on PL-Side (240 IOs 1.2/1.8V Adjustable Default 1.8V, 96 IOs, 1.8/2.5/3.3V Adjustable Default 3.3V)
GTH	GTH: 32 Paris (16.3G)/ GTY: 16 Pairs (32.75G)
Voltage/ Current	B-12V / 5A
Form Factors	3.54 inch x 2.95 inch (90 mm x 75mm)



3.54 inch (90 mm)

2.95 inch (75 mm)



## PZ-ZU47DR-SOM

SPECIFICATION	
FPGA Chip	XCZU47DR-2FFVE1156I
Gigabit Ethernet	4 x Cortex-A53 1.333Ghz, 2 x Cortex-R5F 533Mhz
14bit ADC/14bit DAC	8 Ways of 5Gsp/s ADC, 8 Ways of 9.85Gsp/s DAC
Logic Cells	930K
Look up Tables	425K
DSP Slices	4272
Max. Distributed RAM	13Mb
Block RAM	38Mb
Ultra RAM (Mb)	22.5Mb
DDR4	8GB on PS Side/4GB on PL Side
EMMC	32GB
QSPI FLASH	256Mb QSP0 + 256Mb QSP1
Start-up Mode	JTAG/QSPI/SD/EMMC, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
Number of IO	38 IOs on PS Side (Fixed 1.8V) 44 IOs on PL Side (1.8/2.5/3.3V Adjustable, Default 3.3V)
GTY	8 Pairs of TX/RX (32.75G)
Voltage/ Current	8-12V / 5A
Form Factors	3.54 inch x 2.95 inch (90 mm x 75 mm)



3.54 inch (90 mm)

2.95 inch (75 mm)



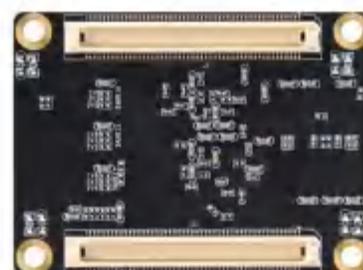
## PZ-A735T-SOM

SPECIFICATION	
FPGA Chip	XC7A35T-2FGG484I
Logic Cells	33280
Slices	5200
BLOCK ROM	1800
DSP Slices	90
DDR3/DD3L	1GB/32bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	2
Reset KEY	1
GTP	4 Pairs of TX/RX
IO (Level Adjustable)	138 IOs
Voltage/ Current	5V/2A
Form Factors	2.36 inch x 1.77 inch (60 mm x 45 mm)
Connector Height	3mm



1.77 inch (45 mm)

2.36 inch (60 mm)

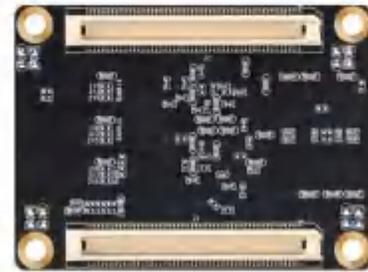


## PZ-A775T-SOM

SPECIFICATION	
FPGA Chip	XC7A75T-2FGG484I
Logic Cells	75520
Slices	11800
BLOCK ROM	3780
DSP Slices	180
DDR3/DD3L	1GB/32bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	2
Reset KEY	1
GTP	4 Pairs of TX/RX
ID (Level Adjustable)	172 IDs
Voltage/ Current	5V/2A
Form Factors	2.36 inch x 1.77 inch (60 mm x 45mm)
Connector Height	3mm



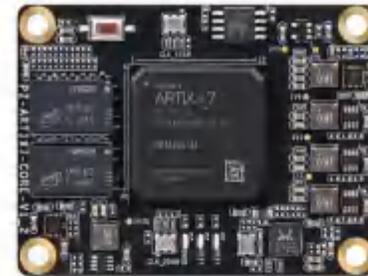
2.36 inch (60 mm)



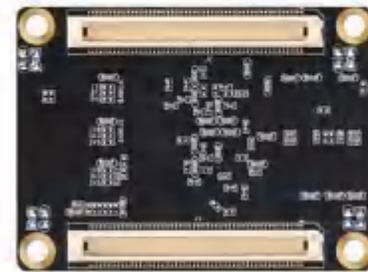
1.77 inch (45 mm)

## PZ-A7100T-SOM

SPECIFICATION	
FPGA Chip	XC7A100T-2FGG484I
Logic Cells	101440
Slices	15850
BLOCK ROM	4846
DSP Slices	240
DDR3/DD3L	1GB/32bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	2
Reset KEY	1
GTP	4 Pairs of TX/RX
IO (Level Adjustable)	172 IDs
Voltage/ Current	5V/2A
Form Factors	2.36 inch x 1.77 inch (60 mm x 45mm)
Connector Height	3mm



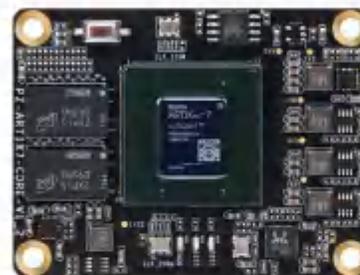
2.36 inch (60 mm)



1.77 inch (45 mm)

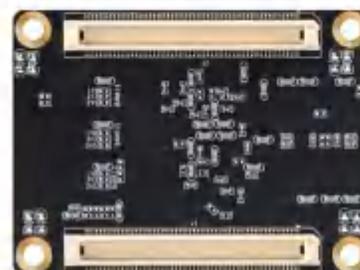
## PZ-A7200T-SOM

SPECIFICATION	
FPGA Chip	XC7A200T-2FBG484I
Logic Cells	215360
Slices	33650
BLOCK ROM	13140
DSP Slices	740
DDR3/DD3L	1GB/32bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	2
Reset KEY	1
GTP	4 Pairs of TX/RX
IO (Level Adjustable)	172 IOs
Voltage/ Current	5V/2A
Form Factors	2.36 inch x 1.77 inch (60 mm x 45mm)
Connector Height	3mm



1.77 inch (45 mm)

2.36 inch (60 mm)



## PZ-AU15P-SOM

SPECIFICATION	
FPGA Chip	XCAU15P-2FFVB676I
Logic Cells	170k
CLB Flip-Flops	156k
CLB LUTS	78k
BLOCK ROM	5.1Mb
DSP Slices	576
DDR4	1GB/16bit Width
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
User LED	3
GPH	12 Pairs of TX/RX
IO (Level Adjustable)	Total: 168 HP: 96 IOs (1.2/1.8V Adjustable, Default 1.8V) HD: 72 IOs (1.8/2.5/3.3V Adjustable, Default 3.3V)
Voltage/ Current	5V/2A
Form Factors	2.95 inch x 2.17 inch (75 mm x 55 mm)
Connector Height	4mm



55mm

2.95 inch (75 mm)



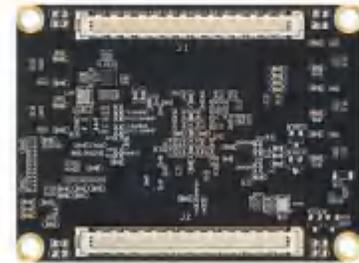
## PZ-AU20P-SOM

SPECIFICATION	
FPGA Chip	XCAU20P-2FFVB676I
Logic Cells	238k
CLB Flip-Flops	218k
CLB LUTS	109k
BLOCK ROM	7.0Mb
DSP Slices	900
DDR4	1GB/16bit Width
QSPI FLASH	256Mb, to Store Startup Files and User Files
Start-up Mode	JTAG/QSPI, Default QSPI Startup
User LED	3
GPH	12 Pairs of TX/RX
Number of IO	Total: 168
	HP: 96 IOs (1.2/1.8V Adjustable, Default 1.8V) HD: 72 IOs (1.8/2.5/3.3V Adjustable, Default 3.3V)
Voltage/ Current	5V/2A
Form Factors	2.95 inch x 2.17 inch (75 mm x 55 mm)
Connector Height	4mm



2.17 inch (55 mm)

2.95 inch (75 mm)



## PZ-K7325T-SOM

SPECIFICATION	
FPGA Chip	XC7K325T-2FFG900I
Logic Cells	326080
Slices	50950
BLOCK ROM	16020
DSP Slices	840
DDR3/DD3L	2GB/64bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	5
Reset KEY	1
GT	16 Pairs of TX/RX
Number of IO	288 IOs, 1.8/2.5/3.3V Adjustable, Default 3.3V
Voltage/ Current	5V/3A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)
Connector Height	3mm



2.55 inch (64.8 mm)

3.30 inch (83.8 mm)



## PZ-K7410T-SOM

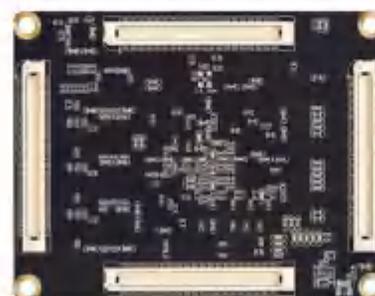
### SPECIFICATION

FPGA Chip	XC7K410T-2FFG900I
Logic Cells	406720
Slices	63550
BLOCK ROM	28620
DSP Slices	1540
DDR3/DD3L	2GB/64bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	5
Reset KEY	1
GTX	16 Pairs of TX/RX
Number of IO	288 IOs, 1.8/2.5/3.3V Adjustable, Default 3.3V
Voltage/ Current	5V/3A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)
Connector Height	3mm



64.8mm (2.55inch)

83.8 mm (3.30inch)



## PZ-KU040-SOM

### SPECIFICATION

FPGA Chip	XCKU040-2FFVA1156I
Logic Cells	530250
LUTs	242400
Flip-Flops	484800
BLOCK ROM	21.1Mb
DSP Slices	1920
DDR4	4GB/64bit
QSPI FLASH	256Mb QSPI0 + 256Mb QSPI1
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	5
Reset KEY	1
GTH	20 Pairs of TX/RX
Number of IO	Total 296 IOs HR: 8 Single-ended (Default 3.3V) HR: 24 Differential Pairs/48 Single-ended (1.8/2.5/3.3V adjustable) HP: 120 Differential Pairs/240 Single-ended (1.2/1.8V adjustable)
Voltage/ Current	5V/6A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



64.8mm (2.55 inch)

83.8 mm (3.30inch)



## PZ-KU060-SOM

SPECIFICATION	
FPGA Chip	XCKU060-2FFVA1156I
Logic Cells	725550
LUTs	331680
Flip-Flops	663360
BLOCK ROM	38Mb
DSP Slices	2760
DDR4	4GB/64bit
QSPI FLASH	256Mb QSPI0 + 256Mb QSPI1
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	5
Reset KEY	1
GTH	20 Pairs of TX/RX Total: 296 IOs
Number of IO	HR: 8 Single-ended (Default 3.3V) HR: 24 Differential Pairs/48 Single-ended (1.8/2.5/3.3V adjustable) HP: 120 Differential Pairs/240 Single-ended (1.2/1.8V adjustable)
Voltage/ Current	5V/6A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)



64.8mm (2.55inch)

83.8 mm (3.30inch)



## PZ-KU095-SOM

SPECIFICATION	
FPGA Chip	XCKU095-2FFVA1156I
Logic Cells	1176000
LUTs	537600
Flip-Flops	1075200
BLOCK ROM	59.1Mb
DSP Slices	768
DDR4	4GB/64bit
QSPI FLASH	256Mb QSPI0 + 256Mb QSPI1
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	5
Reset KEY	1
GTH	20 Pairs of TX/RX Total: 296 IOs
Number of IO	HR: 8 Single-ended (Default 3.3V) HR: 24 Differential Pairs/48 Single-ended (1.8/2.5/3.3V adjustable) HP: 120 Differential Pairs/240 Single-ended (1.2/1.8V adjustable)
Voltage/ Current	5V/6A
Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)
Connector Height	4mm



64.8mm (2.55inch)

83.8 mm (3.30inch)



## PZ-KU3P-SOM

SPECIFICATION	
FPGA Chip	XCKU3P-2FFVB676I
Logic Cells	356k
CLB Flip-Flops	325k
CLB LUTs	163k
Block ROM	12.7Mb
DSP Slices	1368
DDR4	2GB/32bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
User LED	3
Reset KEY	1
GTY	16 Pairs of TX/RX
Number of IO	Total: 168 IOs
	HP: 96 IOs (1.2V/ 1.8V Adjustable, Default 1.8V) HD: 72 IOs (1.8V/ 2.5V/ 3.3V Adjustable, Default 3.3V)
Voltage/ Current	5V/3A
Form Factors	2.95 inch x 2.17inch (75 mm x 55 mm)
Connector Height	5mm



2.17 inch (55 mm)

2.95 inch (75 mm)



## PZ-KU5P-SOM

SPECIFICATION	
FPGA Chip	XCKU5P-2FFVB676I
Logic Cells	475k
CLB Flip-Flops	434k
CLB LUTs	217k
Block ROM	16.9Mb
DSP Slices	1824
DDR4	2GB/32bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
User LED	3
Reset KEY	1
GTY	16 Pairs of TX/RX
Number of IO	Total: 168 IOs
	HP: 96 IOs (1.2/ 1.8V Adjustable, Default 1.8V) HD: 72 IOs (1.2/ 1.8 / 3.3V Adjustable, Default 3.3V)
Voltage/ Current	5V/3A
Form Factors	2.95 inch x 2.17inch (75 mm x 55 mm)
Connector Height	5mm



2.17 inch (55 mm)

2.95 inch (75 mm)



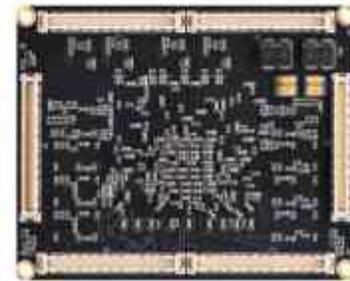
# PZ-V7690T-SOM

SPECIFICATION	
FPGA Chip	XC7V690T-2FFG17611
Slices	108300
Logic Cells	693120
CLB Flip-Flops	866400
Distributed RAM	10888Kb
BLOCK RAM	1470
TotalBlockRAM	52920Kb
DSP Slices	3600
DDR3	2GB/64bit + 2GB/64bit
Start-up Mode	JTAG/QSPI/BPI
User LED	2
GTH	36 Pairs of TX/RX
Number of IO	Total: 528 IOs HP: 264 Differential Pairs/528 Single-end (1.2/ 1.8V Adjustable, Default 1.8V)
Voltage/ Current	8-12V/5A
Form Factors	3.94 inch x 3.15 inch(100 mm x 80 mm)
Connector Height	4mm



3.15 inch (80 mm)

3.94 inch (100 mm)



## PZ-VU9P-SOM

SPECIFICATION	
FPGA Chip	XCVU9P-2FLGB2104I
Logic Cells	2586k
CLB Flip-Flops	2364k
CLB LUTS	1182k
BLOCK ROM	75.9Mb
DSP Slices	6840
DDR4	Dual Group of DDR4 (8GB + 8GB)
Start-up Mode	JTAG/BPI/SPI, Default JTAG Startup
GTY	76 Pairs of TX/RX
Number of IO	360 IOs (1.2/1.8V Adjustable, Default 1.8V)
Voltage/ Current	12V/20A
Form Factors	3.94 inch x 3.94 inch (100 mm x 100 mm)
Connector Height	5mm



3.94 inch (100 mm)

3.94 inch (100 mm)



## PZ-VU13P-SOM

SPECIFICATION	
FPGA Chip	XCVU13P-2FHGB2104I
Logic Cells	3780k
CLB Flip-Flops	3456k
CLB LUTS	1728k
BLOCK ROM	94.5Mb
DSP Slices	12288
DDR4	Dual Group of DDR4 (8GB + 8GB)
Start-up Mode	JTAG/BPI/SPI, Default JTAG Startup
GTY	76 Pairs of TX/RX
Number of IO	360 IOs (1.2/1.8V Adjustable, Default 1.8V)
Voltage/ Current	12V/20A
Form Factors	3.94 inch x 3.94 inch (100 mm x 100 mm)
Connector Height	5mm



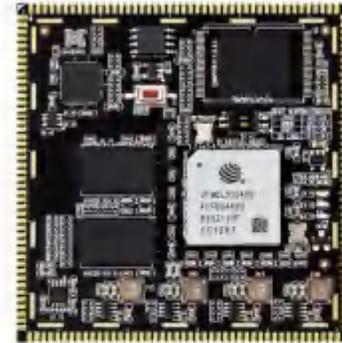
3.94 inch (100 mm)

3.94 inch (100 mm)



## PZ7020F-SOM

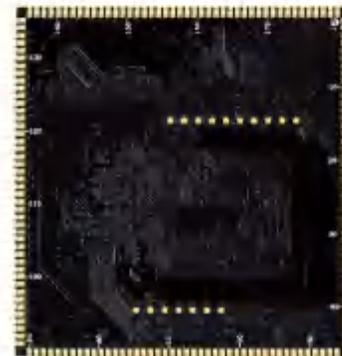
SPECIFICATION	
FPGA Chip	JFML20S400
ARM Processor Core	Four Cortex-A7, Main Frequency 800Mhz
Logic Cells	85K
Look up Tables	53200
Flip-Flops	106400
DSP slice	220
BLOCK RAM	4.9Mb
DDR3/DD3L	1GB
QSPI FLASH	128Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	2
IO (Level Adjustable)	24 IOs on P5 Side, 118 IOs on PL Side (70 IOs Fixed 3.3V 48 IOs 1.8/2.5/3.3V Adjustable, Default 3.3V)
Chip Level	Industrial Grade (-40°C~+85°C)
Form Factors	2.40 inch x 2.40 inch (61mm x 61mm)
Voltage/ Current	5V/ 1A



2.40 inch (61 mm)

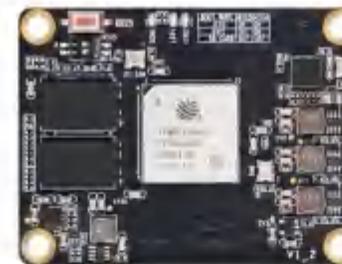
1.27mm

2.40 inch (61 mm)



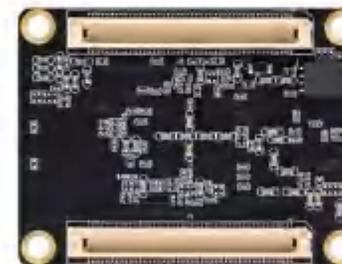
## PZ7020SF-SOM

SPECIFICATION	
FPGA Chip	JFML20S400
ARM Processor Core	Four Cortex-A7, Main Frequency 800Mhz
Logic Cells	85K
Look up Tables	53200
Flip-Flops	106400
DSP slice	220
BLOCK RAM	4.9Mb
DDR3/DD3L	1GB
QSPI FLASH	256Mb
Gigabit Ethernet Chip	1
User LED	2
IO (Level Adjustable)	30 IOs on P5 Side (24 IOs Fixed 1.8V, 6 IOs Fixed 3.3V) 116 IOs on PL Side (1.8/2.5/3.3V Adjustable, 6 IOs Fixed 3.3V)
Chip Level	Industrial Grade (-40°C~+85°C)
Form Factors	2.36 inch x 1.77 inch (60mm x 45mm)
Voltage/ Current	5V/ 1A



1.77 inch (45 mm)

2.36 inch (60 mm)



## PZ7045F-SOM

### SPECIFICATION

FPGA Chip	FMQL45T900
ARM Processor Core	Four Cortex-A7, Main Frequency 800MHz
Logic Cells	350K
LUTs	218600
Flip-Flops	437200
DSP Slices	900
BLOCK RAM	19.2Mb
DDR3/DD3L	1GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	5
IO (Level Adjustable)	24 IOs on PS Side, 240 IOs on PL Side (48 IOs Fixed 1.8V; 192 IOs 1.8 / 2.5 / 3.3 Adjustable Default 3.3V)
GTX	4 Bank, 16 Pairs of TX/RX each
Voltage/ Current	12V/3A
Chip Level	Industrial Grade (-40°C~+85°C)
Form Factors	3.30 inch x 2.55 inch (83.8 mm x 64.8 mm)



2.55 inch (64.8 mm)

3.30 inch (83.8 mm)



## PZ7100F-SOM

### SPECIFICATION

FPGA Chip	JFMQL100TA900
ARM Processor Core	Four Cortex-A53, Main Frequency 1Ghz, with AI
Logic Cells	444K
LUTs	277400
Flip-Flops	554800
DSP Slices	2020
BLOCK RAM	26.5Mb
DDR3/DD3L	1GB on PS Side, 1GB on PL Side
QSPI FLASH	256Mb
EMMC	8GB
Start-up Mode	JTAG/QSPI/SD, On-board DIP Switch Selection
Gigabit Ethernet Chip	1
User LED	5
IO (Level Adjustable)	24 IOs on PS Side, 240 IOs on PL Side (48 IOs Fixed 1.8V; 192 IOs 1.8 / 2.5 / 3.3 Adjustable Default 3.3V)
GTX	4 Bank, 16 Pairs of TX/RX each
Voltage/ Current	12V/3A
Chip Level	Industrial Grade (-40°C~+85°C)
Form Factors	3.30 inch x 2.55 inch (83.8 mm x 64.8 mm)



2.55 inch (64.8 mm)

3.30 inch (83.8 mm)



## PZ-K7325TF-SOM

### SPECIFICATION

FPGA Chip	JFM7K325T
Logic Cells	326080
Slices	50950
BLOCK ROM	16020
DSP Slices	840
DDR3/DD3L	2GB/64bit
QSPI FLASH	256Mb
Start-up Mode	JTAG/QSPI, Default QSPI Startup
Gigabit Ethernet Chip	1
User LED	5
Reset KEY	1
GTX	16 Pairs of TX/RX
IO (Level Adjustable)	288 single-ended / 144 differential pairs (1.8/2.5/3.3V adjustable, default 3.3V)
Voltage/ Current	5V/3A
Form Factors	3.30 inch x 2.55 inch (83.8 mm x 64.8 mm)
Connector Height	3mm



2.55 inch (64.8 mm)

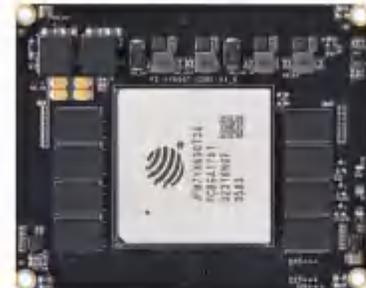
3.30 inch (83.8 mm)



## PZ-V7690TF-SOM

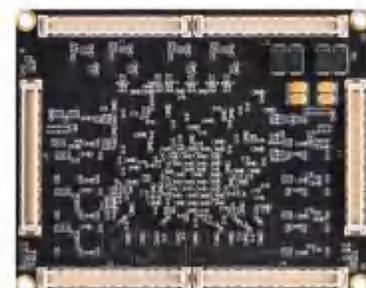
### SPECIFICATION

FPGA Chip	JFM7VX690T36
Slices	108300
Logic Cells	693120
CLB Flip-Flops	866400
Distributed RAM	10888kb
BLOCK RAM	1470
Total Block RAM	52920kb
DSP Slices	3600
DDR3	2GB/64bit + 2GB/64bit
Start-up Mode	JTAG / QSPI / BP1
User LED	2
GTH	36 Pairs of TX/RX
IO (Level Adjustable)	528 IOs HP: 528 single-ended/264 differential pairs (1.2/1.8 adjustable, default 1.8V)
Voltage/ Current	8-12V/5A
Form Factors	3.94 inch x 3.15 inch (100 mm x 80 mm)
Connector Height	4mm



3.15 inch (80 mm)

3.94 inch (100 mm)



## PZ7010-StarLite

### SPECIFICATION

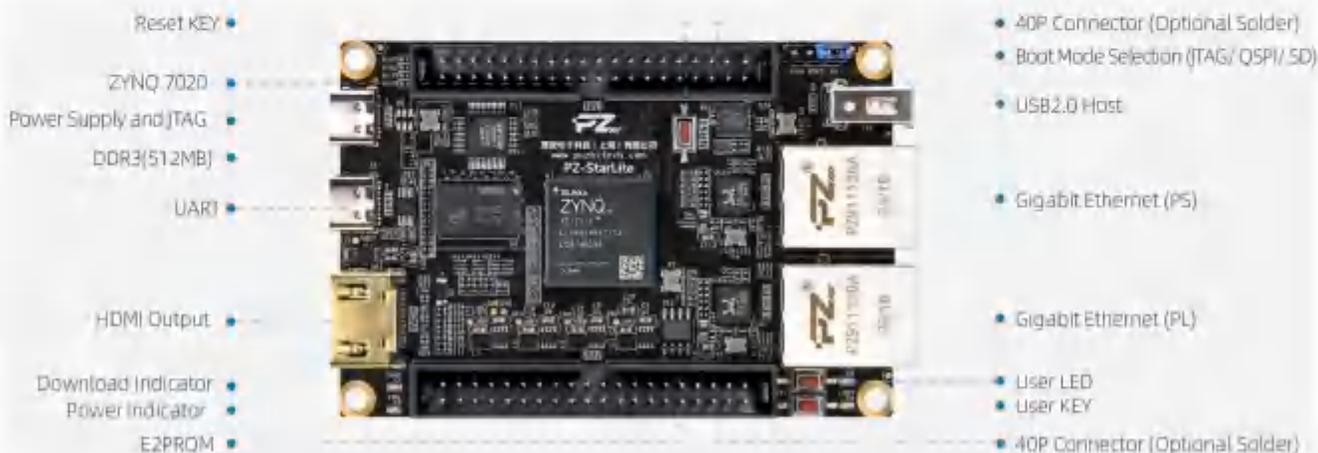
FPGA Chip	XC7Z010-CLG400	USB2.0 Host	1
DDR3	512MB/ 16bit	Gigabit Ethernet	1 on PS Side, 1 on PL Side
QSPI FLASH	128Mb	HDMI	1 HDMI Output
E2PROM	64Kbit	LED / KEY	2 LEDs/ 2 KEYS
JTAG	1	2 x 40P Expansion Ports	64 Single-ended / 32 Differential Pairs (PL Side)
UART	1	Form Factors	3.54 inch x 2.36 inch (90 mm x 60 mm)
SD Card Slot Interface	1	Technology	Black Matte, immersion Gold Process



## PZ7020-StarLite

### SPECIFICATION

FPGA Chip	XC7Z020-CLG400	USB2.0 Host	1
DDR3	512MB/ 16bit	Gigabit Ethernet	1 on PS Side, 1 on PL Side
QSPI FLASH	128Mb	HDMI	1 HDMI Output
E2PROM	64Kbit	LED / KEY	2 LEDs/ 2 KEYS
JTAG	1	MIPI CSI	1 (2 Lane)
UART	1	2*40P Expansion Ports	64 Single-ended / 32 Differential Pairs (PL Side)
SD Card Slot Interface	1	Form Factors	3.54 inch x 2.36 inch (90 mm x 60 mm)



## PZ7010-KFB

### SPECIFICATION

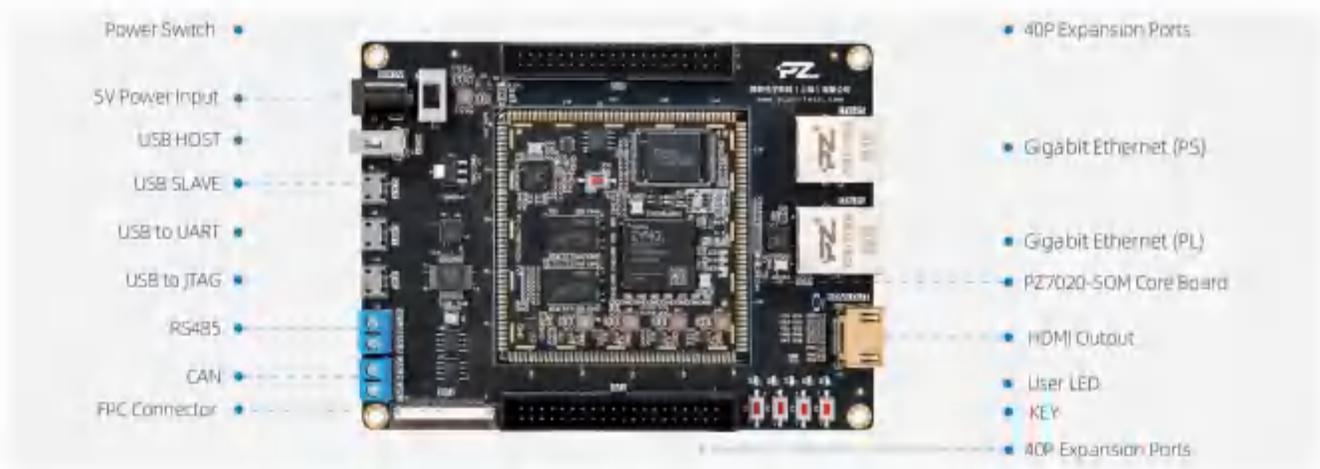
FPGA Chip	XC7Z010-2CLG400I	USB2.0 Host/ Slave	1 / 1
DDR3	512MB/ 15bit	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
EMMC	4GB	HDMI	1 HDMI Output
QSPI FLASH	128Mbit	LED / KEY	5 LEDs/ 4 KEYS
E2PROM	64Kbit	2 x 40P Expansion Ports	56 Single-ended Signals
JTAG/UART/RS485/CAN	1 / 1 / 1 / 1	SOM Form Factors	2.40 inch x 2.40 inch (61mm x 61mm)
SD Card Slot Interface	1	Board Form Factors	5.04 inch x 3.78 inch (128mm x 96mm)



## PZ7020-KFB

### SPECIFICATION

FPGA Chip	XC7Z020-2CLG400I	USB2.0 Host/ Slave	1 / 1
DDR3	1GB/ 32bit	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
EMMC	8GB	HDMI	1 HDMI Output
QSPI FLASH	128Mbit	LED / KEY	5 LEDs/ 4 KEYS
E2PROM	64Kbit	2 x 40P Expansion Ports	56 Single-ended Signals
JTAG/UART/RS485/CAN	1 / 1 / 1 / 1	SOM Form Factors	2.40 inch x 2.40 inch (61mm x 61mm)
SD Card Slot Interface	1	Board Form Factors	5.04 inch x 3.78 inch (128mm x 96mm)



## PZ7010S-KFB

### SPECIFICATION

FPGA Chip	XC7Z010-2CLG400I	USB2.0 Host/ Slave	1/ 1
Logic cells	28K	Gigabit Ethernet	1 on PS Side
DDR3	512MB/ / 16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	LED/KEY	4 LEDs / 4 KEYS
E2PROM	64Kbit	40P Expansion Ports	32 Single-ended/ 16 Differential Pairs
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	120P Expansion Ports	68 Single-ended/ 34 Differential Pairs
SD Card Slot Interface	1	Board Form Factors	4.72 Inch x 3.54 Inch (120mm x 90mm)



## PZ7020S-KFB

### SPECIFICATION

FPGA Chip	XC7Z020-2CLG400I	USB2.0 Host/ Slave	1/1
Logic cells	85K	Gigabit Ethernet	1 on PS Side
DDR3	1GB/ 32bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	LED/KEY	4 LEDs / 4 KEYS
E2PROM	64Kbit	40P Expansion Ports	32 Single-ended/ 16 Differential Pairs
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	120P Expansion Ports	68 Single-ended/ 34 Differential Pairs
SD Card Slot Interface	1	Board Form Factors	4.72 Inch x 3.54 Inch (120mm x 90mm)



## PZ7020S-FL-KFB

### SPECIFICATION

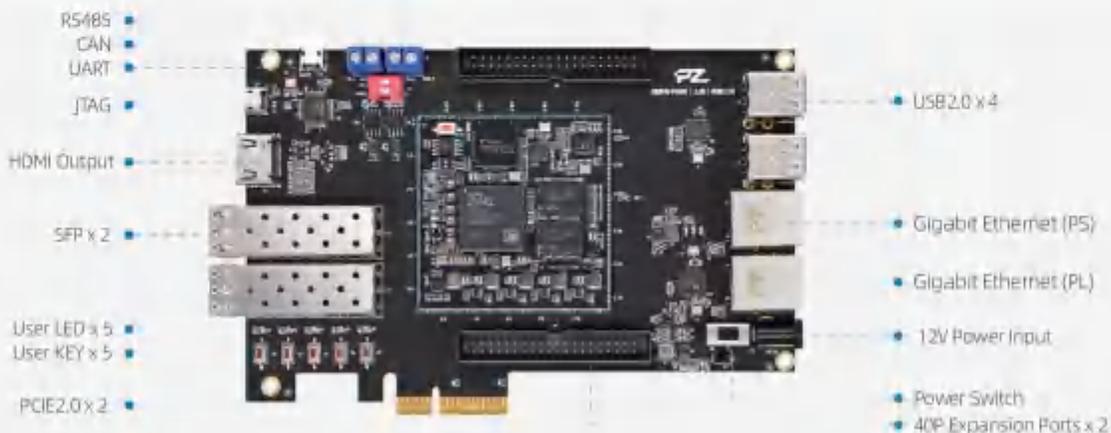
FPGA Chip	XC7Z020-2CLG400I	USB2.0 Host/ Slave	1/1
Logic cells	85K	Gigabit Ethernet	1 on PS Side
DDR3	1GB/ 32bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	LED/KEY	4 LEDs / 4 KEYS
E2PROM	64Kbit	40P Expansion Ports	32 Single-ended/ 16 Differential Pairs
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	FMC LPC	72 Single-ended/ 36 Differential Pairs
SD Card Slot Interface	1	Board Form Factors	4.72 inch x 3.74 inch (120mm x 95mm)



## PZ7015-KFB

### SPECIFICATION

FPGA Chip	XC7Z015-2CLG485I	Gigabit Ethernet	1 on PS Side, 1 on PL Side
DDR3	1GB/ 16bit	HDMI	1 HDMI Output
EMMC	8GB	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	128Mb	SFP/PCIE2.0	SFP x 2/ PCIE2.0 x 2
JTAG	1	2 x 40P Expansion Ports	64 Single-ended/ 32 Differential Pairs
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	Voltage/ Current	12V/2A
SD Card Slot Interface	1	Board Form Factors	6.57 inch x 4.09 inch (167mm x 104mm)



## PZ7030-KFB-676 (PCIE not Available)

### SPECIFICATION

FPGA Chip	XC7Z030-2FFG676I	HDMI Output	1
DDR3/DD3L	1GB on PS Side/ 1GB on PL Side	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
QSPI FLASH	256Mb	LED/KEY	5 LEDs / 5 KEYS
EMMC	8GB	SFP / PCIE2.0	SFP x 2/ PCIE not Available
JTAG/UART/RS485/CAN	1/1 / 1 / 1	Expansion Ports	240P x 2 / 120P x 1
SD Card Slot Interface	1	Voltage/ Current	12V/ 3A
USB2.0 Host	4	Board Form Factors	6.77inch x 4.57inch (172mm x 116mm)

- Two Gigabit Ethernet
- 40P Expansion Ports
- RS485
- CAN
- SFP x 2
- HDMI
- 12V Power Input



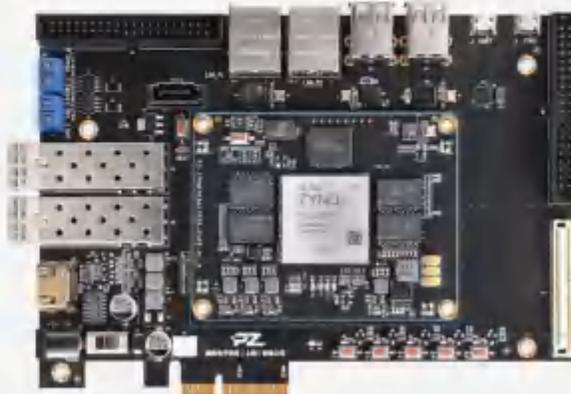
- USB2.0 Host x 4
- USB to UART, USB to JTAG
- 40P Expansion Ports
- PZ7030-SOM-676 Core Board
- 120P Expansion Ports
- User LED
- KEY

## PZ7035-KFB-676

### SPECIFICATION

FPGA Chip	XC7Z035-2FFG676I	HDMI Output	1
DDR3/DD3L	1GB on PS Side/ 1GB on PL Side	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
QSPI FLASH	256Mb	LED/KEY	5 LEDs / 5 KEYS
EMMC	8GB	SFP/PCIE2.0	SFP x 2/ PCIE2.0 x 4
JTAG/UART/RS485/CAN	1 / 1 / 1 / 1	Expansion Ports	2 x 40P / 1 x 120P
SD Card Slot Interface	1	Voltage/ Current	12V/3A
USB2.0 Host	4	Board Form Factors	6.77inch x 4.57inch (172mm x 116mm)

- Two Gigabit Ethernet
- 40P Expansion Ports
- RS485
- CAN
- SFP x 2
- HDMI
- 12V Power Input
- PCIE2.0 x 4

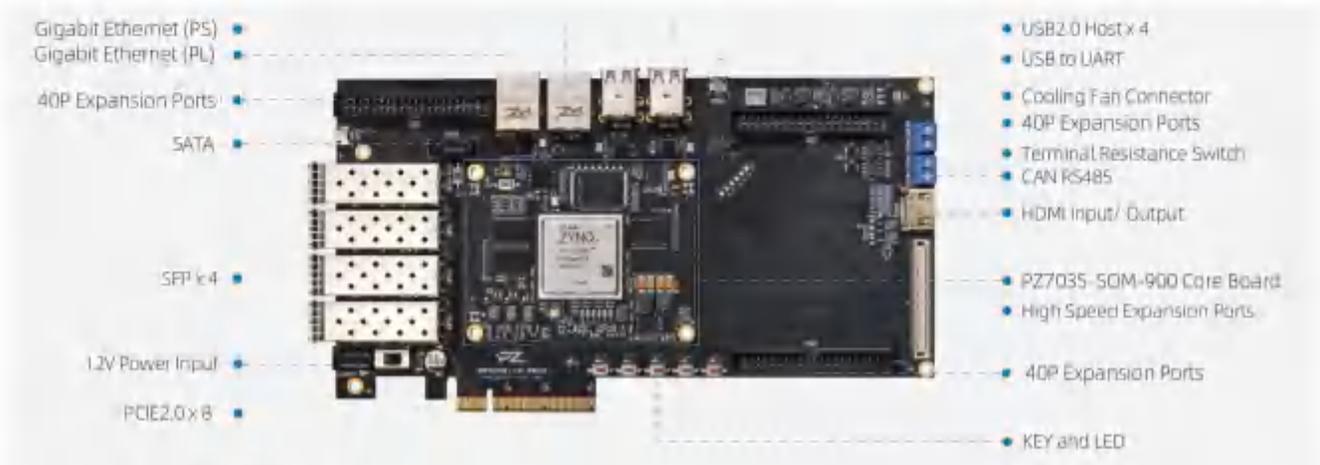


- USB2.0 Host x 4
- USB to UART, USB to JTAG
- 40P Expansion Ports
- PZ7035-SOM-676 Core Board
- 120P Expansion Ports
- User LED
- KEY

# PZ7035-KFB-900

## SPECIFICATION

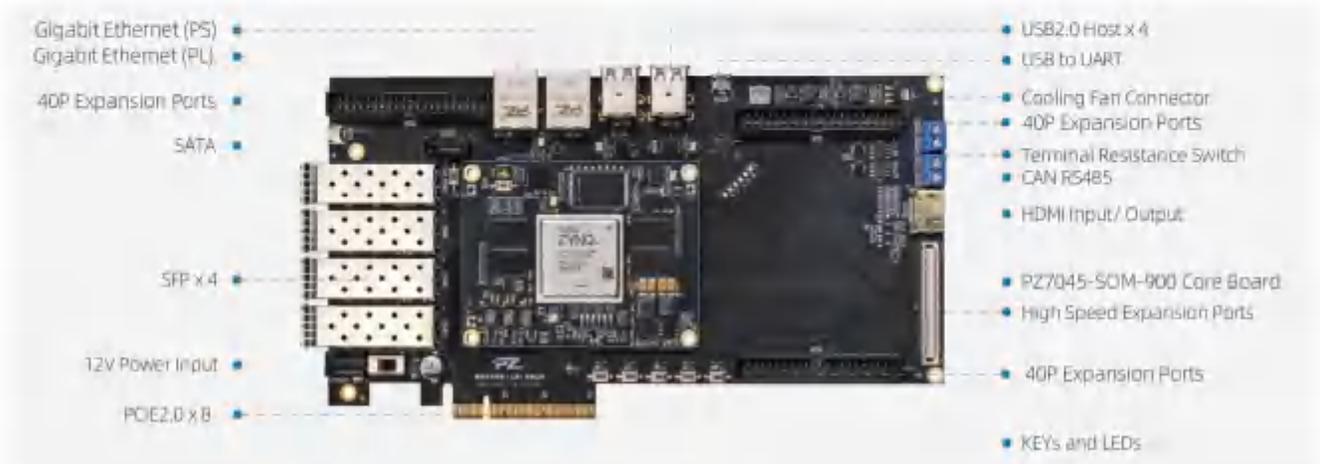
FPGA Chip	XC7Z035-2FFG900I	Gigabit Ethernet	1 on PS Side / 1 on PL Side
DDR3/DD3L	1GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	SATA Interface	1
EMMC	8GB	SFP/ PCIE2.0	SFP x 4/ PCIE2.0 x 8
JTAG/UART/RS485/CAN	1 / 1 / 1 / 1	40P Expansion Ports	JM1/ JM2/ JM3
SD Card Slot Interface	1	Voltage/ Current	12V/3A
USB2.0 Host	4	Board Form Factors	8.66 inch x 4.57 inch (220mm x 116mm)



# PZ7045-KFB-900

## SPECIFICATION

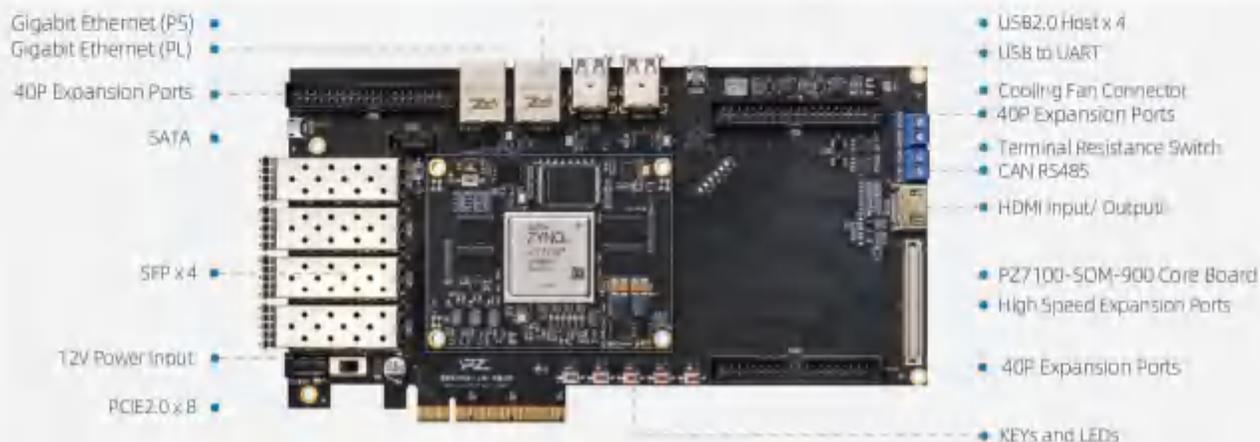
FPGA Chip	XC7Z045-2FFG900I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR3/DD3L	1GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	SATA Interface	1
EMMC	8GB	SFP/ PCIE2.0	SFP x 4/ PCIE2.0 x 8
JTAG/UART/RS485/CAN	1 / 1 / 1 / 1	40P Expansion Ports	JM1/ JM2/ JM3
SD Card Slot Interface	1	Voltage/ Current	12V/3A
USB2.0 Host	4	Board Form Factors	8.66 inch x 4.57 inch (220mm x 116mm)



## PZ7100-KFB-900

### SPECIFICATION

FPGA Chip	XC7Z100-2FFG900I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR3/DD3L	1GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	SATA Interface	1
EMMC	8GB	SFP/PCIE2.0	SFP x 4/ PCIE2.0 x 8
JTAG/UART/RS485/CAN	1 / 1 / 1/1	40P Expansion Ports	JM1 / JM2 / JM3
SD Card Slot Interface	1	Voltage/ Current	1.2V/3A
USB2.0 Host	4	Board Form Factors	8.66 inch x 4.57 inch (220mm x 116mm)



## PZ7035-FH-KFB

### SPECIFICATION

FPGA Chip	XC7Z035-2FFG900I	Gigabit Ethernet	1
DDR3/DD3L	1GB on PS Side/ 1GB on PL Side	LED/KEY	2 LEDs / 2 KEYS
QSPI FLASH	256Mb	SFP Interface	2
EMMC	8GB	PCIE 2.0	PCIE2.0 x 4
JTAG/UART/RS485/CAN	1 / 1 / 1/1	FMC Interface	FMC HPC, IO All Connected
SD Card Slot Interface	1	Voltage/ Current	1.2V/ 3A
USB2.0 Host	4	Board Form Factors	6.69 inch x 3.94 inch (170mm x 100mm)



## PZ7045-FH-KFB

### SPECIFICATION

FPGA Chip	XC7Z045-2FFG900I	Gigabit Ethernet	1
DDR3/DD3L	1GB on PS Side/ 1GB on PL Side	LED/KEY	2 LEDs / 2 KEYS
QSPI FLASH	256Mb	SFP	2
EMMC	8GB	PCIE2.0	x4
JTAG/UART/RS485/CAN	1 / 1 / 1/1	FMC Interface	FMC HPC, IO All Connected
SD Card Slot Interface	1	Voltage/ Current	12V/3A
USB2.0 Host	4	Board Form Factors	6.69 inch x 3.94 inch (170mm x 100mm)

40P Expansion Ports

RS485  
SATA  
CAN

SFP x 2

Cooling Fan Connector

12V Power Input

PCIE3.0 x 4



- FMC HPC
- JTAG Interface
- USB to UART
- Gigabit Ethernet (PS)
- PZ7045-SOM-900 Core Board
- USB2.0 Host x 4
- KEYS and LEDs

## PZ7100-FH-KFB

### SPECIFICATION

FPGA Chip	XC7Z100-2FFG900I	Gigabit Ethernet	1
DDR3/DD3L	1GB on PS Side/ 1GB on PL Side	LED/KEY	2 LEDs / 2 KEYS
QSPI FLASH	256Mb	SFP Interface	2
EMMC	8GB	PCIE2.0	x4
JTAG/UART/RS485/CAN	1 / 1 / 1/1	FMC interface	FMC HPC, IO All Connected
SD Card Slot Interface	1	Voltage/ Current	12V/3A
USB2.0 Host	4	Board Form Factors	6.69 inch x 3.94 inch (170mm x 100mm)

40P Expansion Ports

RS485  
SATA  
CAN

SFP x 2

Cooling Fan Connector

12V Power Input

PCIE2.0 x 4



- FMC HPC
- JTAG Interface
- USB to UART
- Gigabit Ethernet (PS)
- PZ7100-SOM-900 Core Board
- USB2.0 Host x 4
- KEYS and LEDs

## PZ-ZU2CG-KFB (PCIE not Available)

### SPECIFICATION

FPGA Chip	XCZU2CG-25FVC784I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 4GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	Mini DP Output	1
EMMC	8GB	RTC	1
E2PROM	64Kbit	SSD (NVME)	1 on PS Side
JTAG/UART/RS485/CAN	1/1 / 1 / 1	40P Expansion Ports	1, 32 Single-ended
SD Card Slot Interface	1	120P Expansion Ports	2, 80 Single-ended



## PZ-ZU3EG-KFB (PCIE not Available)

### SPECIFICATION

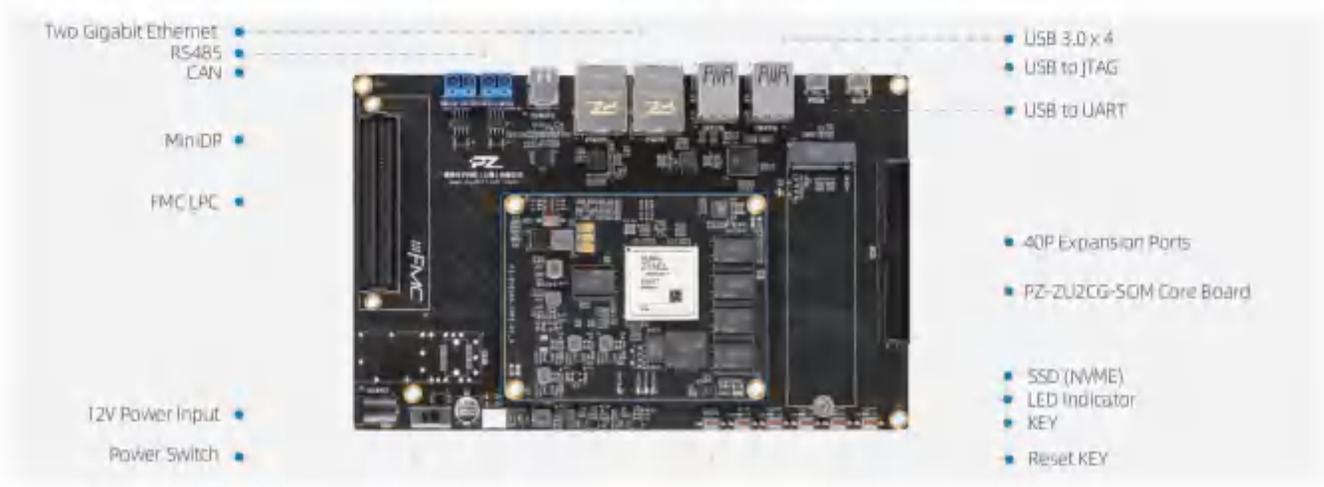
FPGA Chip	XCZU3EG-25FVC784I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	Mini DP Output	1
EMMC	8GB	RTC	1
E2PROM	64Kbit	SSD (NVME)	1 on PS Side
JTAG/UART/RS485/CAN	1/1 / 1 / 1	40P Expansion Ports	1, 32 Single-ended
SD Card Slot Interface	1	120P Expansion Ports	2, 80 Single-ended



# PZ-ZU2CG-FL-KFB

## SPECIFICATION

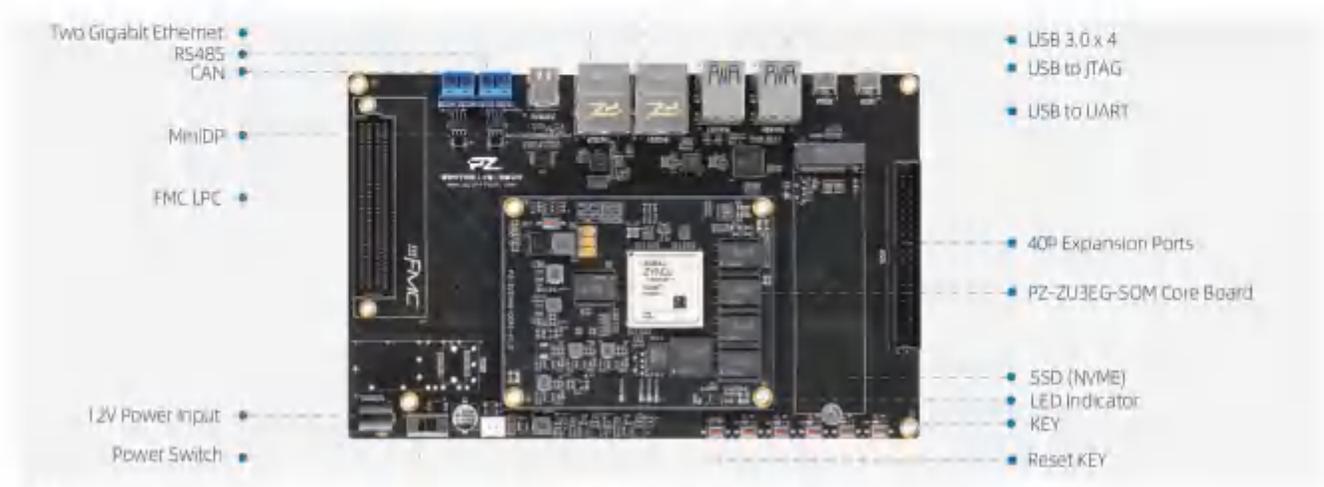
FPGA Chip	XCZU2CG-25FVC784I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	MIPI Interface	1
EMMC	8GB	Mini DP Output	1
E2PROM	64Kbit	SSD (NVME)	1 on PS Side
JTAG/UART/RS485/CAN	1/1 / 1 / 1	40P Expansion Ports	32 Single-ended/16 Differential pairs
SD Card Slot Interface	1	FMC Interface	FMC LPC



# PZ-ZU3EG-FL-KFB

## SPECIFICATION

FPGA Chip	XCZU3EG-25FVC784I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	MIPI Interface	1
EMMC	8GB	Mini DP Output	1
E2PROM	64Kbit	SSD (NVME)	1 on PS Side
JTAG/UART/RS485/CAN	1/1 / 1 / 1	40P Expansion Ports	32 Single-ended/16 Differential pairs
SD Card Slot interface	1	FMC Interface	FMC LPC



## PZ-ZU4EV-KFB

### SPECIFICATION

FPGA Chip	XCZU4EV-25FVC784I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	Mini DP Output	1
EMMC	8GB	RTC/ SSD (NVME)	1/ 1 on PS Side
E2PROM	64Kbit	SFP/PCIE3.0	SFP x 2/ PCIE3.0 x 2
JTAG/UART/R5485/CAN	1/1 / 1 / 1	40P Expansion Ports	1, 32 Single-ended
SD Card Slot Interface	1	120P Expansion Ports	2, 80 Single-ended



## PZ-ZU5EV-KFB

### SPECIFICATION

FPGA Chip	XCZU5EV-25FVC784I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	Mini DP Output	1
EMMC	8GB	RTC/ SSD (NVME)	1/ 1 on PS Side
E2PROM	64Kbit	SFP/PCIE3.0	SFP x 2/ PCIE3.0 x 2
JTAG/UART/R5485/CAN	1/1 / 1 / 1	40P Expansion Ports	1, 32 Single-ended
SD Card Slot Interface	1	120P Expansion Ports	2, 80 Single-ended



## PZ-ZU4EV-FL-KFB

### SPECIFICATION

FPGA Chip	XCZU4EV-25PVC784I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	Mini DP Output	1
EMMC	8GB	RTC	1
E2PROM	64Kbit	SSD (NVME)	1 on PS Side
JTAG/UART/RS485/CAN	1 / 1 / 1 / 1	40P Expansion Ports	1, 32 Single-ended
SD Card Slot Interface	1	120P Expansion Ports	2, 80 Single-ended

Two Gigabit Ethernet  
MiniDP  
CAN, RS485

FMC LPC

SFP Interface  
1.2V Power Input  
Power Switch



USB 3.0 x 4  
USB to JTAG  
USB to UART

40P Expansion Ports  
PZ-ZU4EV-SOM Core Board  
40P Expansion Ports

SSD (NVME)  
LED Indicator  
KEY  
Reset KEY

## PZ-ZU5EV-FL-KFB

### SPECIFICATION

FPGA Chip	XCZU5EV-25FVC784I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 1GB on PL Side	LED/KEY	5 LEDs / 5 KEYS
QSPI FLASH	256Mb	Mini DP Output	1
EMMC	8GB	RTC	1
E2PROM	64Kbit	SSD (NVME)	1 on PS Side
JTAG/UART/RS485/CAN	1 / 1 / 1 / 1	40P Expansion Ports	1, 32 Single-ended
SD Card Slot Interface	1	120P Expansion Ports	2, 80 Single-ended

Two Gigabit Ethernet  
MiniDP  
CAN, RS485

FMC LPC

SFP Interface  
1.2V Power Input  
Power Switch



USB 3.0 x 4  
USB to JTAG  
USB to UART

40P Expansion Ports  
PZ-ZU5EV-SOM Core Board  
40P Expansion Ports

SSD (NVME)  
LED Indicator  
KEY  
Reset KEY

## PZ-ZU7EG-KFB

### SPECIFICATION

FPGA Chip	XCZU7EG-2FFVC1156I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 4GB on PL Side	LED / KEY	2 LEDs / 2 KEYS
QSPI FLASH	256Mb + 256Mb	Mini DP Output	1
EMMC	8GB	HDMI (4K)	1 Input/1 Output, Supporting 4K/60 fps
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	SSD	1 (PS Side)
SD Card Slot Interface	1	SATA/SFP/PCIE3.0	SATA x 2/ SFP x 2/ PCIE 3.0 x 4
MIPI	2 (2lane)	FMC Expansion Ports	FMC HPC



## PZ-ZU7EV-KFB

### SPECIFICATION

FPGA Chip	XCZU7EV-2FFVC1156I	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
DDR4	4GB on PS Side/ 4GB on PL Side	LED / KEY	2 LEDs / 2 KEYS
QSPI FLASH	256Mb+256Mb	Mini DP Output	1
EMMC	8GB	HDMI (4K)	1 Input/1 Output, Supporting 4K/60 fps
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	SSD	1 (PS Side)
SD Card Slot Interface	1	SATA/SFP/PCIE3.0	SATA x 2/ SFP x 2/ PCIE 3.0 x 4
MIPI	2 (2lane)	FMC Expansion Ports	FMC HPC



## PZ-ZU11EG-KFB

### SPECIFICATION

FPGA Chip	XCZU11EG-2FFVC1156I	Gigabit Ethernet	1 on PS Side/1 on PL Side
DDR4	4GB on PS Side/ 4GB on PL Side	LED / KEY	2 LEDs/ 2 KEYS
QSPI FLASH	256Mb + 256Mb	Mini DP Output	1
EMMC	8GB	HDMI (4K)	1 Input/1 Output, Support 4K/60 fps
JTAG/UART/RS485/CAN	1/ 1/1/1	SSD	1 (PS Side)
SD Card Slot Interface	1	SATA/SFP/PCIE3.0	SATA x2/ SFP x2/ POE 3.0 x4
MIPI	MIPI x2	FMC Expansion Ports	FMC HPC



## PZ-ZU9EG-KFB

### SPECIFICATION

FPGA Chip	XCZU9EG-2FFVB1156I	Gigabit Ethernet	1 on PS Side/1 on PL Side
DDR4	4GB on PS Side/ 2GB on PL Side	MIPI/ USB 3.0	MIPI x2/ USB 3.0 x4
QSPI FLASH	256Mb + 256Mb	LED / KEY	4 LEDs / 3 KEYS
EMMC	8GB	Mini DP Interface	1
E2PROM	64Kbit	HDMI (4K)	1 HDMI Input, 1 HDMI Output
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	SSD	1 (PS Side)
SD Card Slot Interface	1	SATA/SFP	SATA x2/ SFP x2



## PZ-ZU15EG-KFB

### SPECIFICATION

FPGA Chip	XCZU15EG-2FFVB1156I	Gigabit Ethernet	1 on PS Side/1 on PL Side
DDR4	4GB on PS Side/ 2GB on PL Side	MIPI/ USB 3.0	MIPI x 2/ USB 3.0 x 4
QSPI FLASH	256Mb + 256Mb	LED/KEY	4 LEDs/ 3 KEYS
EMMC	8GB	Mini DP Interface	1
E2PROM	64Kbit	HDMI (4K)	1 HDMI Input, 1 HDMI Output
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	SSD	1 (PS Side)
SD Card Slot Interface	1	SATA/SFP	SATA x 2/ SFP x 2



## PZ-ZU19EG-KFB

### SPECIFICATION

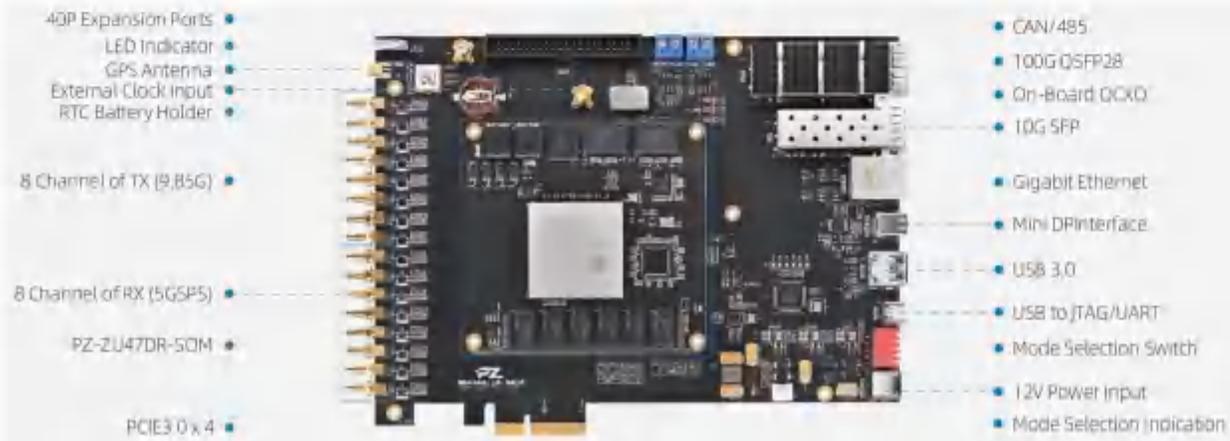
FPGA Chip	XCZU19EG-2FFVC1760I	Mini DP interface	1
DDR4	8GB on PS side (with ECC), 8GB on PL side	SSD interface (NVME )	1
EMMC/ E2PROM	32GB/64Kbit	QSF28 / SATA	QSF28 (100G) x 4/ 4 SATA
QSPI FLASH	128MB	MIPI/40P Expansion Port	MIPI x 2/1 x 40P
Start-up Mode	JTAG/SD/QSPI/EMMC	FMC	1 HPC FMC, 1 LPC FMC
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	LED/KEY	4 LEDs/ 4 KEYS
Gigabit Ethernet/USB 3.0	1 Gigabit Ethernet on PS Side/ 4 USB 3.0	Voltage/ Current	12V/ 3A



## PZ-ZU47DR-KFB

### SPECIFICATION

FPGA Chip	XCZU47DR-2FFVE1156I	Mini DP Interface	1
DDR4	8GB on PS Side (with ECC), 4GB on PL Side	SSD Interface (NVME)	1
EMMC/ E2PROM	32GB	QSFP28 /SFP	QSFP28 (100G) x 1/ SFP x 1
QSPI FLASH	512Mb QSPI D + 512Mb QSPI T	40P Expansion Ports	1
Start-up Mode	JTAG/SD/QSPI/EMMC	TX/ RX	8 Channels Each
JTAG/UART/RS485/CAN	1/ 1/ 1/ 1	GPS	1
Gigabit Ethernet/USB 3.0	1/ 1	Voltage/ Current	12V/3A



## PA35T-StarLite

### SPECIFICATION

FPGA Chip	XC7A35T-2FGG484I	Gigabit Ethernet	1
DDR3	1GB/ 16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	LED	2
E2PROM	64Kbit	KEY	2
JTAG	1	2 * 40P Expansion Ports	64 Single-end / 32 Differential Pairs
UART	1	Form Factors	3.54 inch x 2.36 inch (90 mm x 60 mm)
SD Card Slot Interface	1	Technology	Black Matte, Immersion Gold Process



## PA75T-StarLite

### SPECIFICATION

FPGA Chip	XC7A75T-2FGG484I	Gigabit Ethernet	1
DDR3	1GB/ 16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	MIPI CSI	1 (2 Lane)
E2PROM	64Kbit	LED/KEY	2 LEDs/ 2 KEYS
JTAG	1	2*40P Expansion Ports	64 Single-end / 32 Differential Pairs
UART	1	Form Factors	3.54 inch x 2.36 inch (90 mm x 60 mm)
SD Card Slot Interface	1	Technology	Black Matte, Immersion Gold Process



## PA100T-StarLite

### SPECIFICATION

FPGA Chip	XC7A100T-2FGG484I	Gigabit Ethernet	1
DDR3	1GB/ 16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	MIPI CSI	1 (2 lane)
E2PROM	64Kbit	LED/KEY	2 LEDs/ 2 KEYS
JTAG	1	2*40P Expansion Ports	64 Single-end / 32 Differential Pairs
UART	1	Form Factors	3.54 inch x 2.36 inch (90 mm x 60 mm)
SD Card Slot Interface	1	Technology	Black Matte, Immersion Gold Process



# PA200T-StarLite

## SPECIFICATION

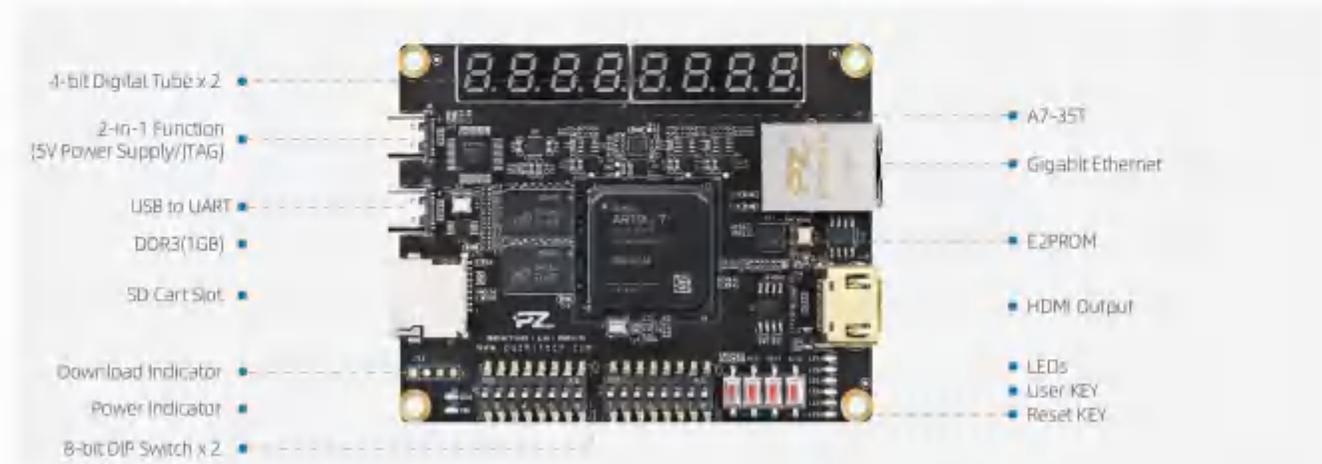
FPGA Chip	XC7A200T-2FBG484I	Gigabit Ethernet	1
DDR3	1GB/ 16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	MIPI CSI	1 (2lane)
E2PROM	64Kbit	LED/KEY	2 LEDs/ 2 KEYS
JTAG	1	2*40P Expansion Ports	64 Single-end / 32 Differential Pairs
UART	1	Form Factors	3.54 inch x 2.36 inch (90 mm x 60 mm)
SD Card Slot Interface	1	Technology	Black Matte, Immersion Gold Process



# PA35T-EDU

## SPECIFICATION

FPGA Chip	XC7A35T-2FGG484I	Gigabit Ethernet	1
DDR3	1GB/ 16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	Crystal Oscillator	200MHz Differential Crystal for FPGA
E2PROM	64Kbit	LED/KEY	6 LEDs /4 KEYS
JTAG	1	40P 0.5mm FPC interface	5V 3.3A power supply and 33 IOs included
UART	1	Form Factors	3.54 inch x 2.76 inch (90 mm x 70 mm)
SD Card Slot Interface	1	Technology	Black Matte, Immersion Gold Process



## PA100T-EDU

### SPECIFICATION

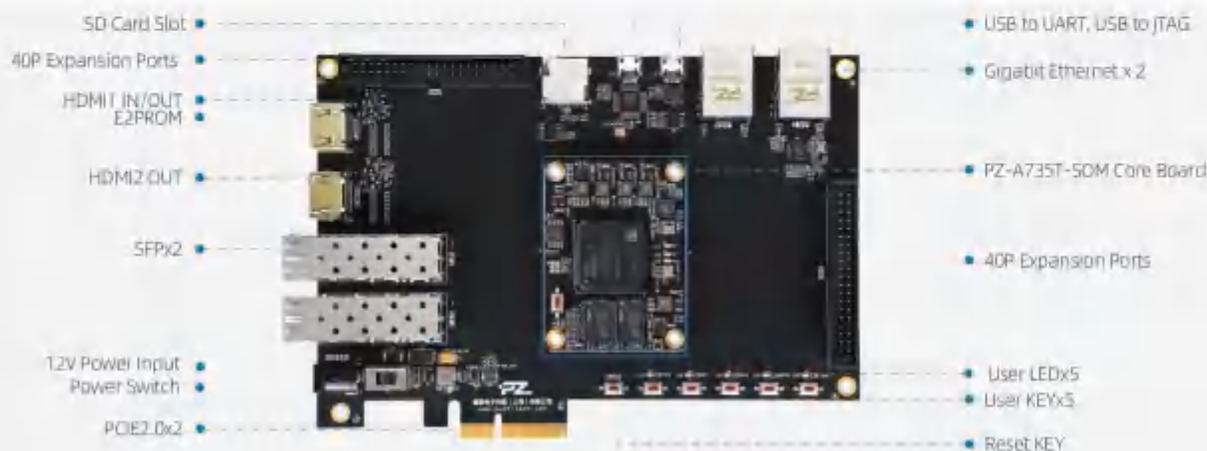
FPGA Chip	XC7A100T-2FGG484I	Gigabit Ethernet	1
DDR3	1GB/16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	Crystal Oscillator	200MHz Differential Crystal for FPGA
E2PROM	64Kbit	LED/ KEY	6 LEDs/ 4 KEYS
JTAG	1	40P 0.5mm FPC Interface	5V 3.3A power supply and 33 IOs Included
UART	1	Form Factors	3.54 inch x 2.76 inch (90 mm x 70 mm)
SD Card Slot Interface	1	Technology	Black Matte, Immersion Gold Process



## PZ-A735T-KFB

### SPECIFICATION

FPGA Chip	XC7A35T-2FGG484I	User LED/ User KEY	5 LEDs/ 5 KEYS
DDR3	1GB/16bit	HDMI	1 HDMI Input/Output, 1 HDMI Output
QSPI FLASH	256Mb	SFP	2
E2PROM	64Kbit	PCIE2.0	x 2
JTAG/UART	1 / 1	2x40P Expansion Ports	64 Single-end / 32 Differential Pairs
SD Card Slot Interface	1	Voltage/ Current	12V/1A
Gigabit Ethernet	2	Board Form Factors	6.77 inch x 4.57 inch (172mm x 116mm)



## PZ-A775T-KFB

### SPECIFICATION

FPGA Chip	XC7A75T-2FGG484I	User LED/ User KEY	5 LEDs/ 5 KEYS
DDR3	1GB/16bit	HDMI Interface	1 HDMI Input/Output, 1 HDMI Output
QSPI FLASH	256MB	SFP Interface	2
E2PROM	64Kbit	PCIE2.0	x2
JTAG/UART	1/ 1	2x40P Expansion Ports	64 Single-end / 32 Differential Pairs
SD Card Slot Interface	1	Voltage/ Current	1.2V/1A
Gigabit Ethernet	2	Board Form Factors	6.77 inch x 4.57 inch (172mm x 116mm)



## PZ-A7100T-KFB

### SPECIFICATION

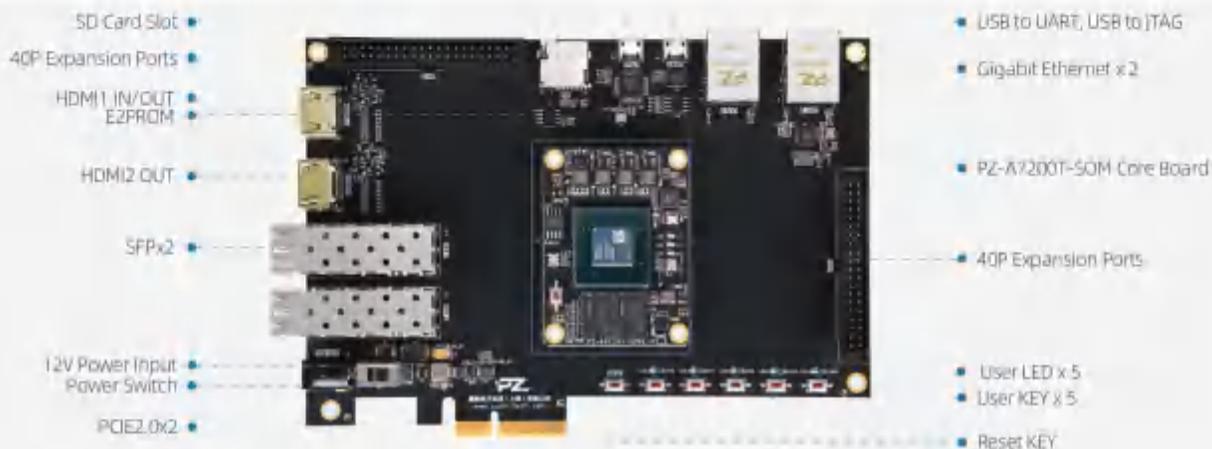
FPGA Chip	XC7A100T-2FGG484I	User LED/ User KEY	5 LEDs/ 5 KEYS
DDR3	1GB/16bit	HDMI Interface	1 HDMI Input/Output, 1 HDMI Output
QSPI FLASH	256Mb	SFP Interface	2
E2PROM	64Kbit	PCIE2.0	x2
JTAG/UART	1/ 1	2x40P Expansion Ports	64 Single-end / 32 Differential Pairs
SD Card Slot interface	1	Voltage/ Current	1.2V/1A
Gigabit Ethernet	2	Board Form Factors	6.77 inch x 4.57 inch (172mm x 116mm)



# PZ-A7200T-KFB

## SPECIFICATION

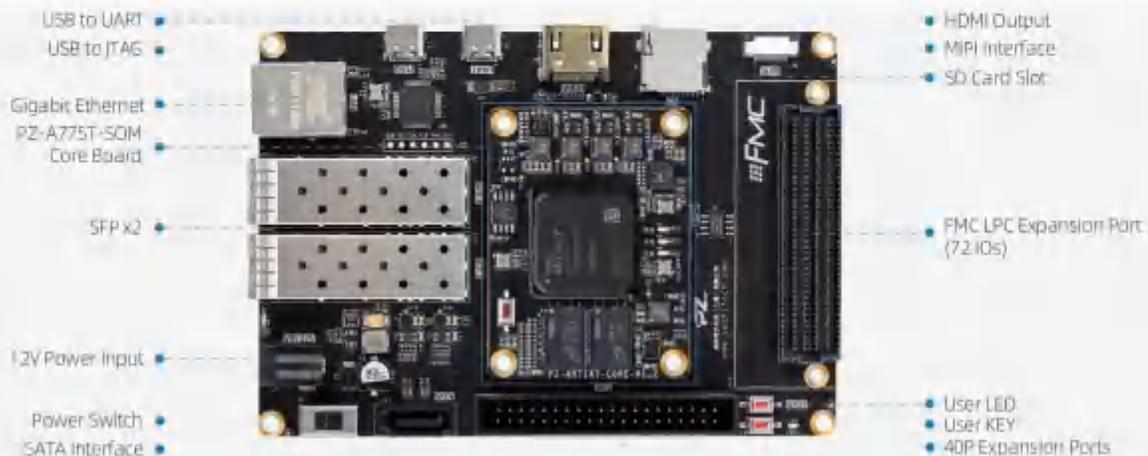
FPGA Chip	XC7A200T-2FBG484I	User LED/ User KEY	5 LEDs/ 5 KEYS
DDR3	1GB/16bit	HDMI Interface	1 HDMI Input/Output, 1 HDMI Output
QSPI FLASH	256Mb	SFP Interface	2
E2PROM	64Kbit	PCIE 2.0	x2
JTAG/UART	1/ 1	2 x 40P Expansion Ports	64 Single-end / 32 Differential Pairs
SD Card Slot Interface	1	Voltage/ Current	12V/1A
Gigabit Ethernet	2	Board Form Factors	6.77 inch x 4.57 inch (172mm x 116mm)



# PA75T-FL-KFB

## SPECIFICATION

FPGA Chip	XC7A75T-2FGG484I	Gigabit Ethernet	1
DDR3	1GB/16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	MIPI CSI	1 (2lane)
GTP	4 Pairs of TX/RX	LED/KEY	1 LED/ 1 KEY
JTAG	1	40P Expansion Ports	32 Single-end / 16 Differential Pairs
UART	1	Board Form Factors	5.12 inch x 3.54 inch (130 mm x 90mm)
SD Card Slot Interface	1	Technology	Black Matte, Immersion Gold Process



## PA100T-FL-KFB

### SPECIFICATION

FPGA Chip	XC7A100T-2FGG484I	Gigabit Ethernet	1
DDR3	1GB/16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	MIPI CSI	1 (2lane)
GTP	4 Pairs of TX/RX	LED/KEY	1 LED/ 1 KEY
JTAG	1	40P Expansion Ports	32 Single-end / 16 Differential Pairs
UART	1	Board Form Factors	5.12 inch x 3.54 inch (130 mm x 90mm)
SD Card Slot interface	1	Technology	Black Matte, Immersion Gold Process



## PA200T-FL-KFB

### SPECIFICATION

FPGA Chip	XC7A200T-2FBG484I	Gigabit Ethernet	1
DDR3	1GB/16bit	HDMI	1 HDMI Output
QSPI FLASH	256Mb	MIPI CSI	1 (2lane)
GTP	4 Pairs of TX/RX	LED/KEY	1 LED/ 1 KEY
JTAG	1	40P Expansion Ports	32 Single-end / 16 Differential Pairs
UART	1	Board Form Factors	5.12 inch x 3.54 inch (130 mm x 90mm)
SD Card Slot interface	1	Technology	Black Matte, Immersion Gold Process



## PZ-AU15P-KFB

### SPECIFICATION

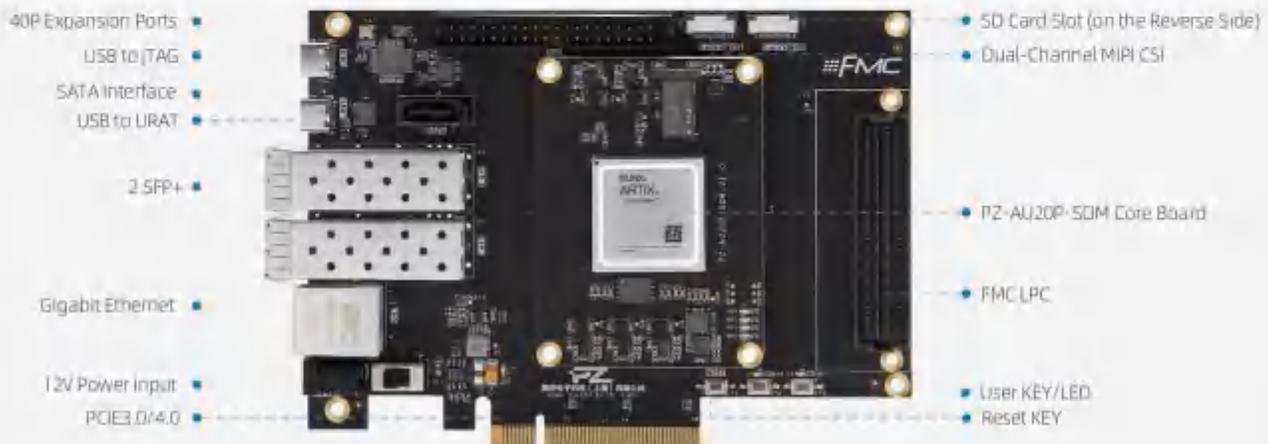
FPGA Chip	XCAU15P-2FFVB676I	LED/ KEY	2LEDs/ 2 KEYS
DDR4	1GB/16bit	SFP Interface	2
QSPI FLASH	256Mb	PCIE3.0/4.0	x 8/ x 4
E2PROM	64Kbit	40P Expansion Ports	32 Single-ended/ 16 Differential Pairs
JTAG/UART	1 / 1	Voltage/ Current	12V/3A
SD Card Slot Interface	2	SOM Form Factors	2.95 inch x 2.17 inch (75 mm x 55 mm)
Gigabit Ethernet	1	Board Form Factors	5.83 inch x 4.21 inch (148mm x 107mm)



## PZ-AU20P-KFB

### SPECIFICATION

FPGA Chip	XCAU20P-2FFVB676I	LED/ KEY	2LEDs/ 2 KEYS
DDR4	1GB/16bit	SFP Interface	2
QSPI FLASH	256Mb	PCIE3.0/4.0	x 8/ x 4
E2PROM	64Kbit	40P Expansion Ports	32 Single-ended/ 16 Differential Pairs
JTAG/UART	1 / 1	Voltage/ Current	12V/3A
SD Card Slot Interface	2	SOM Form Factors	2.95 inch x 2.17 inch (75 mm x 55 mm)
Gigabit Ethernet	1	Board Form Factors	5.83 inch x 4.21 inch (148mm x 107mm)



## PZ-K7325T-KFB

### SPECIFICATION

FPGA Chip	XC7K325T-2FFG900I	LED	5 LEDs
DDR3	2GB /64bit	KEY	5 KEYS
QSPI FLASH	256Mb	HDMI interface	1 HDMI Input/Output/ 1 HDMI Output
E2PROM	64kbit	SFP/ SATA	2/ 1
JTAG/UART	1/ 1	PCIE2.0	x 8.
SD Card Slot Interface	1	40P Expansion Ports	32 Single-ended/16 Differential Pairs
Gigabit Ethernet	1	120P Expansion Ports	96 Single-ended/ 48 Differential Pairs



## PZ-K7410T-KFB

### SPECIFICATION

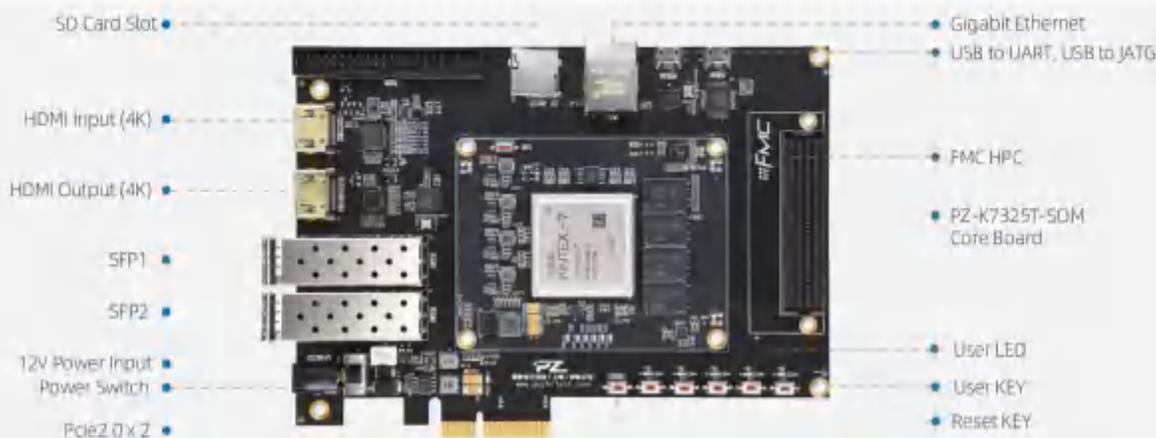
FPGA Chip	XC7K410T-2FFG900I	LED	5 LEDs
DDR3	2GB /64bit	KEY	5 KEYS
QSPI FLASH	256Mb	HDMI interface	1 HDMI Input/Output/ 1 HDMI Output
E2PROM	64Kbit	SFP/ SATA	2/ 1
JTAG/UART	1/ 1	PCIE2.0	x 8
SD Card Slot Interface	1	40P Expansion Ports	32 Single-ended/16 Differential Pairs
Gigabit Ethernet	1	120P Expansion Ports	96 Single-ended/ 48 Differential Pairs



## PZ-K7325T-FH-KFB

### SPECIFICATION

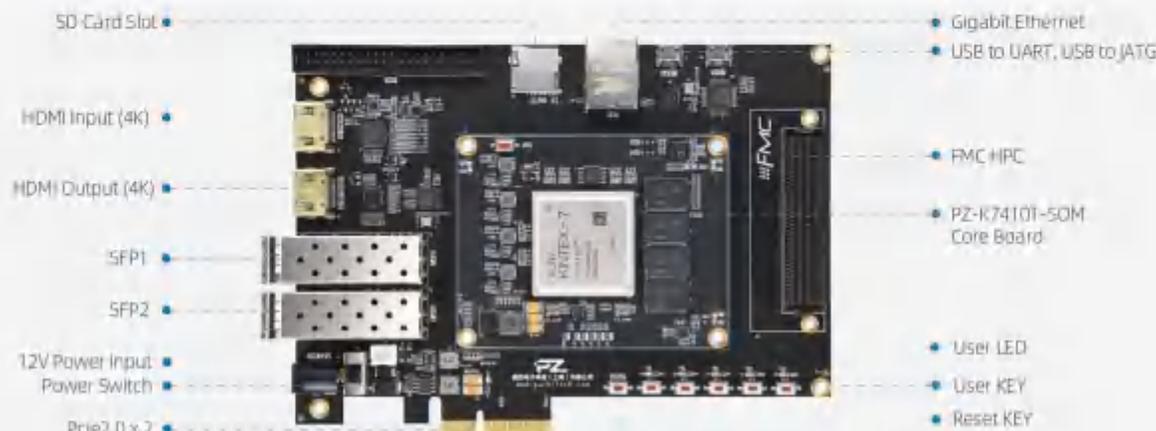
FPGA Chip	XC7K325T-2FFG900I	LED	5 LEDs
DDR3	2GB /64bit	KEY	5 KEYS
QSPI FLASH	256Mb	HDMI Interface (4K)	1 HDMI Input/ 1 HDMI Output
E2PROM	64Kbit	SFP Interface	2
JTAG/UART	1 / 1	PCIE 2.0	x 2
SD Card Slot Interface	1	40P Expansion Ports	32 Single-ended/16 Differential Pairs
Gigabit Ethernet	1	FMC Interface	FMC HPC, IO All Connected



## PZ-K7410T-FH-KFB

### SPECIFICATION

FPGA Chip	XC7K410T-2FFG900I	LED	5 LEDs
DDR3	2GB /64bit	KEY	5 KEYS
QSPI FLASH	256Mb	HDMI Interface (4K)	1 HDMI input/ 1 HDMI Output
E2PROM	64Kbit	SFP Interface	2
JTAG/UART	1/ 1	PCIE 2.0	x 2
SD Card Slot Interface	1	40P Expansion Ports	32 Single-ended/16 Differential Pairs
Gigabit Ethernet	1	FMC Interface	FMC HPC, IO All Connected



## PZ-KU040-KFB

### SPECIFICATION

FPGA Chip	XCKU040-2FFVA1156I	HDMI (4K)	1 Input / Output, Support 4K/60 fps
DDR4	4GB/64bit	SFP Interface	2
QSPI FLASH	256MB + 256MB	PCIE 3.0	x 4
E2PROM	64Kb	40P Expansion Ports	32 Single-ended/16 Differential Pairs
JTAG/Uart/SD Cart Slot	1/ 1/ 1	120P Expansion Ports	48 Single-ended/24 Differential Pairs
Gigabit Ethernet	2	FMC Interface	FMC HPC IO All Connected
LED/KEY	2/ 2	Board Form Factors	6.14 inch x 4.76 inch (156mm x 121mm)



## PZ-KU060-KFB

### SPECIFICATION

FPGA Chip	XCKU060-2FFVA1156I	HDMI (4K)	1 Input / Output, Support 4K/60 fps
DDR4	4GB/64bit	SFP Interface	2
QSPI FLASH	256MB + 256MB	PCIE3.0	x 4
E2PROM	64Kb	40P Expansion Ports	32 Single-ended/16 Differential Pairs
JTAG/Uart/SD Cart Slot	1/ 1/ 1	120P Expansion Ports	48 Single-ended/24 Differential Pairs
Gigabit Ethernet	2	FMC Interface	FMC HPC, IO All Connected
LED/KEY	2/ 2	Board Form Factors	6.14 inch x 4.76 inch (156mm x 121mm)



## PZ-KU040-FHT-KFB

### SPECIFICATION

FPGA Chip	XCKU040-2FFVA1156I	PCIE3.0	x 8 Interface
QSPI FLASH	256MB + 256MB	FMC Interface	1 FMC HPC, 2 FMC LPC
E2PROM	64Kb	Voltage/ Current	12V/3A
Start-up Mode	JTAG/QSPI, Default Boot Mode is QSPI	SOM Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)
UART	1	Board Form Factors	6.50 inch x 4.25 inch (165mm x 108mm)
JTAG Downloader	1	Technology	Black Matte, Immersion Gold Process
Gigabit Ethernet	1		



## PZ-KU060-FHT-KFB

### SPECIFICATION

FPGA Chip	XCKU060-2FFVA1156I	PCIE3.0	x 8 Interface
QSPI FLASH	256MB + 256MB	FMC Interface	1 FMC HPC, 2 FMC LPC
E2PROM	64Kb	Voltage/ Current	12V/3A
Start-up Mode	JTAG/QSPI, Default Boot Mode is QSPI	SOM Form Factors	3.30 inch x 2.55 inch (83.8mm x 64.8mm)
UART	1	Board Form Factors	6.50 inch x 4.25 inch (165mm x 108mm)
JTAG Downloader	1	Technology	Black Matte, Immersion Gold Process
Gigabit Ethernet	1		



## PZ-KU3P-KFB

### SPECIFICATION

FPGA Chip	XCKU3P-2FFVB676I	LED	2 LEDs
DDR4	2GB/32bit	KEY	2 KEYS
QSPI FLASH	256Mb	PCIE 3.0	x 8
E2PROM	64Kbit	QSFP28	1 (100G)
UART	1	40P Expansion Ports	1, 32 Single-ended/ 16 Differential Pairs
SD Card Slot Interface	1	FMC Interface	1 FMC HPC
Gigabit Ethernet	1	MIPI CSI	2



## PZ-KU5P-KFB

### SPECIFICATION

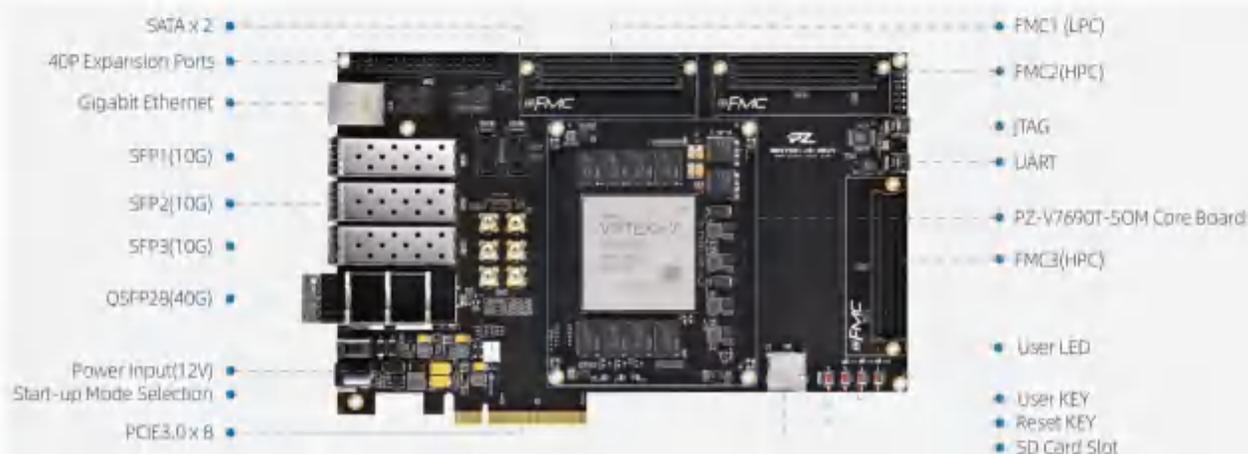
FPGA Chip	XCKU5P-2FFVB676I	LED	2 LEDs
DDR4	2GB/32bit	KEY	2 KEYS
QSPI FLASH	256Mb	PCIE 3.0	x 8
E2PROM	64Kbit	QSFP 28	1 (100G)
UART	1	40P Expansion Ports	1, 32 Single-ended/ 16 Differential Pairs
SD Card Slot Interface	1	FMC Interface	1 FMC HPC
Gigabit Ethernet	1	MIPI CSI	2



## PZ-V7690T-KFB

### SPECIFICATION

FPGA Chip	XC7V690T-2FFG1761I	LED	2
DDR3	2GB/64bit + 2GB/64bit	KEY	2
QSPI FLASH/BPI FLASH	1Gbit/1Gbit	SFP Interface	3
E2PROM	64Kb	QSFP 28	1(40G)
FMC	1 LPC, 2 HPC	PCIE3.0	x 8
SD Card Slot Interface	1	40P Expansion Ports	32 Single-ended/16 Differential Pairs
Gigabit Ethernet	1	Board Form Factors	8.66 inch x 5.12 inch (220mm x 130mm)



## PZ-VU9P-KFB

### SPECIFICATION

FPGA Chip	XC7VU9P-2FLGB2104I	FMC Interface	2 HPC (8 pairs of GT, 168 I/Os), LPC (1 pair of GT, 72 I/Os)
DDR4	8GB DDR4 + 8GB DDR4	Voltage/ Current	12V/20A
JTAG Downloader	1	SOM Form Factors	3.94 inch x 3.94 inch (100mm x 100mm)
UART	1	Board Form Factors	10.08 inch x 5.51 inch (256mm x 140mm)
Gigabit Ethernet	1	Technology	Black Matte, Immersion Gold Process
PCIE3.0	x 8		
QSFP28	4 x 100G		



## PZ-VU13P-KFB

### SPECIFICATION

FPGA Chip	XCVU13P-2FHGB2104I	FMC Interface	2 HPC (8 pairs of GT, 168 I/Os), LPC (1 pair of GT, 72 I/Os)
DDR4	8GB DDR4 + 8GB DDR4	Voltage/ Current	12V/ 20A
JTAG Downloader	1	SOM Form Factors	3.94 inch x 3.94 inch (100mm x 100mm)
UART	1	Board Form Factors	10.08 inch x 5.51 inch (256mm x 140mm)
Gigabit Ethernet	1	Technology	Black Matte, Immersion Gold Process
PCIe3.0	x8 Interface		
QSFP 28	4 x 100G		



## PZ7020F-KFB

### SPECIFICATION

FPGA Chip	JF7020S400	Gigabit Ethernet	1 on PS Side/ 1 on PL Side
ARM Processor Core	Four Cortex-A7, Main Frequency 800Mhz	LED/KEY	5/ 4
DDR3/DD3L	1GB	HDMI	1
EMMC/QSPI FLASH	8G/128Mb	40P FPC Expansion Ports	24 Single-ended / 12 Differential Pairs
JTAG/UART/RS485/CAN	1/ 1/1/ 1	2 x 40P Expansion Ports	56 Single-ended / 27 Differential Pairs
SD Card Slot Interface	1	SOM Form Factors	2.40 inch x 2.40 inch (61mm x 61mm)
USB2.0 Host/ Slave	1/ 1	Board Form Factors	5.04 inch x 3.78 inch (128mm x 96mm)



## PZ7020SF-FL-KFB

### SPECIFICATION

FPGA Chip	JMQL205400	UART/RS485/CAN	1/ 1/1
ARM Processor Core	Four Cortex-A7, Main Frequency 800Mhz	USB2.0 Host/ Slave	1/ 1
Logic cell	85K	Gigabit Ethernet	1 on P5 Side/ 1 on PL Side
DDR3/DD3L	1GB	HDMI	1 Output
QSPI FLASH	256Mb	LED / KEY	4 / 4
JTAG	1	40P Expansion Ports	32 Single-ended / 16 Differential Pairs
SD Card Slot Interface	1	FMC LPC	72 Single-ended / 36 Differential Pairs



## PZ7045F-FH-KFB

### SPECIFICATION

FPGA Chip	FMQL45T900	User LED/ User KEY	2/2
DDR3/DD3L	1GB on P5 Side/1GB on PL Side	PCIe2.0	x 4
QSPI FLASH	256Mb	SATA/SFP	1/2
EMMC	8GB	Voltage/ Current	1.2V/3A
JTAG/UART/RS485/CAN	1/ 1/1/ 1	40P Expansion Ports	32 Single-end/ 16 Differential Pairs
SD Card Slot Interface	1/ 1	FMC Interface	FMC HPC, I/Os All Connected
USB Host 2.0	4	Board Form Factors	6.69 inch x 3.94inch (170mm x 100mm)



## PZ7100F-FH-KFB

### SPECIFICATION

FPGA Chip	JFQML100TAI900	User LED/ User KEY	2/2
DDR3/DD3L	1GB on PS Side/1GB on PL Side	PCIE 2.0	x4
QSPI FLASH	256Mb	SATA/SFP	1/2
EMMC	BGB	Voltage/ Current	12V/3A
JTAG/UART/RS485/CAN	1/1/1/1	40P Expansion Ports	32 Single-end/ 16 Differential Pairs
SD Card Slot Interface	1	FMC Interface	FMC HPC, I/Os All Connected
USB 2.0 Host	4	Board Form Factors	6.69 inch x 3.94inch (170mm x 100mm)



## PZ-K7325TF-FH-KFB

### SPECIFICATION

FPGA Chip	JF7K325T	Gigabit Ethernet	1
Total Block RAM(kb)	16,020	LED/KEY	5/5
DDR3	2GB	HDMI Interface (4K)	1 Input / Output, Support 4K/60 fps
QSPI FLASH	256Mb	PCIE2.0	x 2
E2PROM	64Kbit	SFP	2
UART	1	40P Expansion Ports	32 Single-ended/ 16 Differential Pairs
SD Card Slot Interface	1	FMC Interface	FMC HPC, I/Os All Connected



# PZ-V7690TF-KFB

## SPECIFICATION

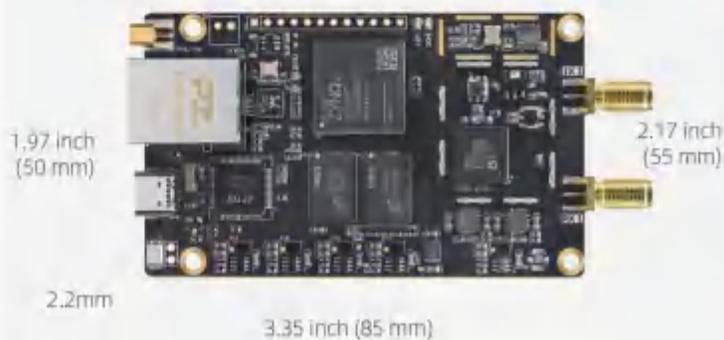
FPGA Chip	JFM7VX690T36	LED	2
DDR3	2GB/64bit + 2GB/64bit	KEY	2
QSPI FLASH/BPI FLASH	1Gbit/1Gbit	SFP Interface	3
E2PROM	64kb	QSFP 28 (40G) Interface	1
FMC Interface	1 FMC LPC / 2 FMC HLPC	PCIe 3.0	x 8
SD Card Slot Interface	1	40P Expansion Ports	32 Single-end / 16 Differential Pairs
Gigabit Ethernet	1	Board Form Factors	8.66 inch x 5.12 inch (220mm x 130mm)



## P201Mini

### SPECIFICATION

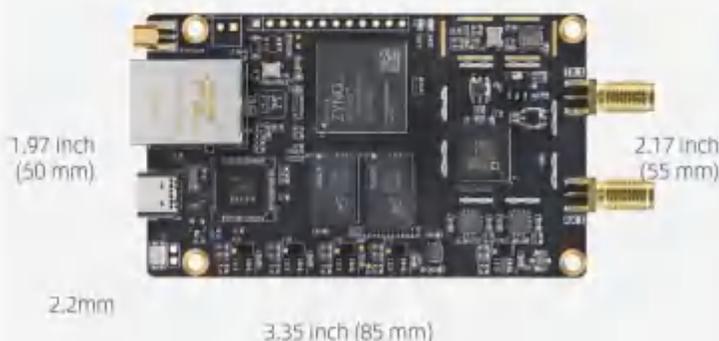
RF Chip	AD9361	DDR3/QSPI FLASH	1 GB / 256Mb
Frequency Range	70M-6Ghz	Gigabit Ethernet	1
Signal Bandwidths	200K-56Mhz	Power Supply	TypeC/XH2.54 Power Supply Options
Power Amplifier	10-15dbm	UART/JTAG/SD	1 / 1 / 1
FPGA Chip	XC7Z020-2CLG400I	10M/PPS	1 Input
Processor Core	Dual Cortex-A9, 766Mhz	Expansion Port IOs	8 x 3.3V IOs, 2 x 1.8V IOs
Logic Cells	85K	Form Factors	3.78 inch x 2.17 inch x 0.91 inch (256mm x 140mm x 23mm)



## P203Mini

### SPECIFICATION

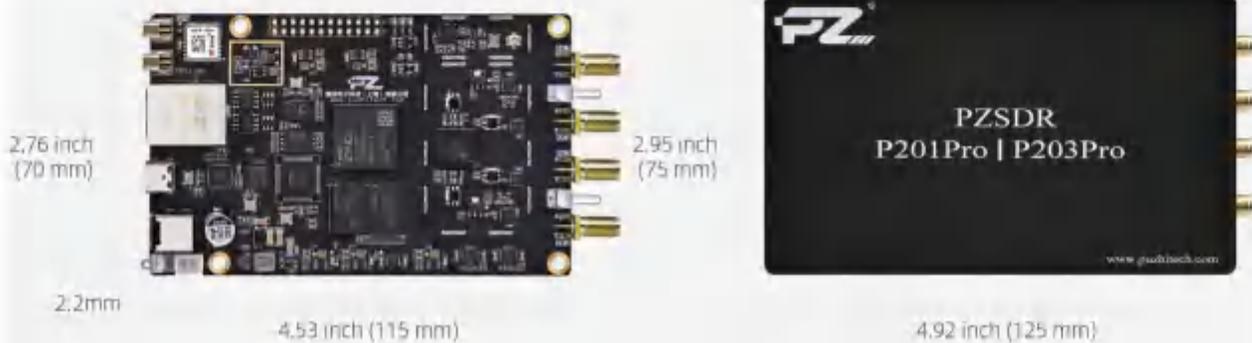
RF Chip	AD9363	DDR3/QSPI FLASH	1GB / 256Mb
Frequency Range	325M-3.8Ghz	Gigabit Ethernet	1
Signal Bandwidths	200K-20Mhz	Power Supply	TypeC/XH2.54 Power Supply Options
Power Amplifier	10-15dbm	UART/JTAG/SD	1 / 1 / 1
FPGA Chip	XC7Z020-2CLG400I	10M/PPS	1 Input
Processor Core	Dual Cortex-A9, 766Mhz	Expansion Port IOs	8 x 3.3V IOs, 2 x 1.8V IOs
Logic Cells	85K	Form Factors	.78 inch x 2.17 inch x 0.91 inch (256mm x 140mm x 23mm)



## P201Pro

### SPECIFICATION

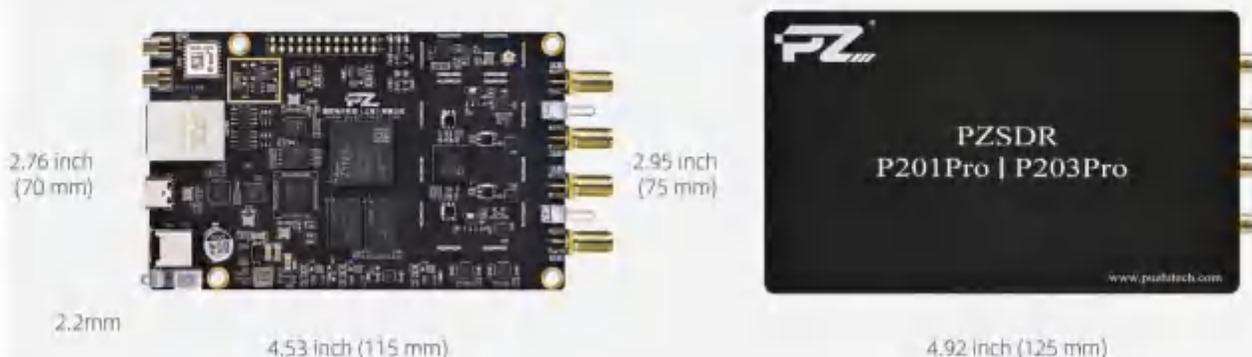
RF Chip	AD9361	RF Clock	40M VCTCXO(0.5PPM)/ipex Input External Input(Default is 40M VCTCXO)
Frequency Range	70M-6Ghz	Clock Input /Output	1 Input/ 1 Output
Signal Bandwidths	200K-56Mhz	JTAG/UART/USB OTG/SD	1/ 1/1/ 1
Power Amplifier	2TX	Gigabit Ethernet/ GPS	1/ 1
FPGA Chip	XC7Z020-2CLG400I	Expansion Port I/Os	16 x3.3V I/Os, 4 x 1.8V I/Os
Processor Core	Dual Core Cortex-A9, 766Mhz	Power Supply	8-36V Ultra-wide Voltage Supply (Limit 50V)
DDR3/QSPI FLASH/E2PROM	1GB / 256Mb / 256Kb		



## P203Pro

### SPECIFICATION

RF Chip	AD9363	RF Clock	40M VCTCXO(0.5PPM)/ipex Input External Input(Default is 40M VCTCXO)
Frequency Range	325M-3.8Ghz	Clock Input /Output	1 Input/ 1 Output
Signal Bandwidths	200K-20Mhz	JTAG/UART/USB/SD	1/1/1/ 1
Power Amplifier	2TX	Gigabit Ethernet	1
FPGA Chip	XC7Z020-2CLG400I	GPS	1
Processor Core	Dual Core Cortex-A9,766Mhz	Power Supply	8-36V Ultra-wide Voltage Supply (Limit 50V)
DDR3/QSPI FLASH/E2PROM	1GB / 256Mb / 256Kb		



## P351

### SPECIFICATION

FPGA Chip	XC7Z035-2FFG900I	EMMC	8GB
Processor Core	Dual Core ARM Cortex-A9, Main Frequency 800Mhz	RF Clock	40M VCTCXO(0.5PPM)/ ipeX input/ External input (Default 40M VCTCXO, OCXO available as an option)
RF Chip	AD9361	Clock Input/ Gigabit Ethernet	1 Clock on PS Side/ 1 Ethernet on PL Side
Frequency/ Signal	70M-6GHz / 200K-56Mhz	USB 3.0/ USB 2.0 OTG	1 / 1
Power Amplifier	10-15dbm	UART/JTAG/SD Cart Slot/GPS	1/ 1/ 1/ 1
DDR3/DD3L	1GB on PS Side, 1GB on PL Side GB	Power Supply	12-36V
QSPI FLASH	256Mb		

3.94 inch  
(100 mm)



2.2mm

6.10 inch (155mm)

4.13 inch  
(105 mm)



6.38 inch (162mm)

## P451

### SPECIFICATION

FPGA Chip	XC7Z045-2FFG900I	EMMC	8GB
Processor Core	Dual Core ARM Cortex-A9, Main Frequency 800Mhz	RF Clock	40M VCTCXO(0.5PPM)/ ipeX input/ External input (Default 40M VCTCXO, OCXO available as an option)
RF Chip	AD9361	Clock Input/ Gigabit Ethernet	1 Clock on PS Side/ 1 Ethernet on PL Side
Frequency/ Signal	70M-6GHz / 200K-56Mhz	USB 3.0/ USB 2.0 OTG	1 / 1
Power Amplifier	10-15dbm	UART/JTAG/SD Cart Slot/GPS	1/ 1/ 1/ 1
DDR3/DD3L	1GB on PS Side, 1GB on PL Side GB	Power Supply	12-36V
QSPI FLASH	256Mb		

3.94 inch  
(100 mm)



2.2mm

6.10 inch (155mm)

4.13 inch  
(105 mm)



6.38 inch (162mm)

# P101

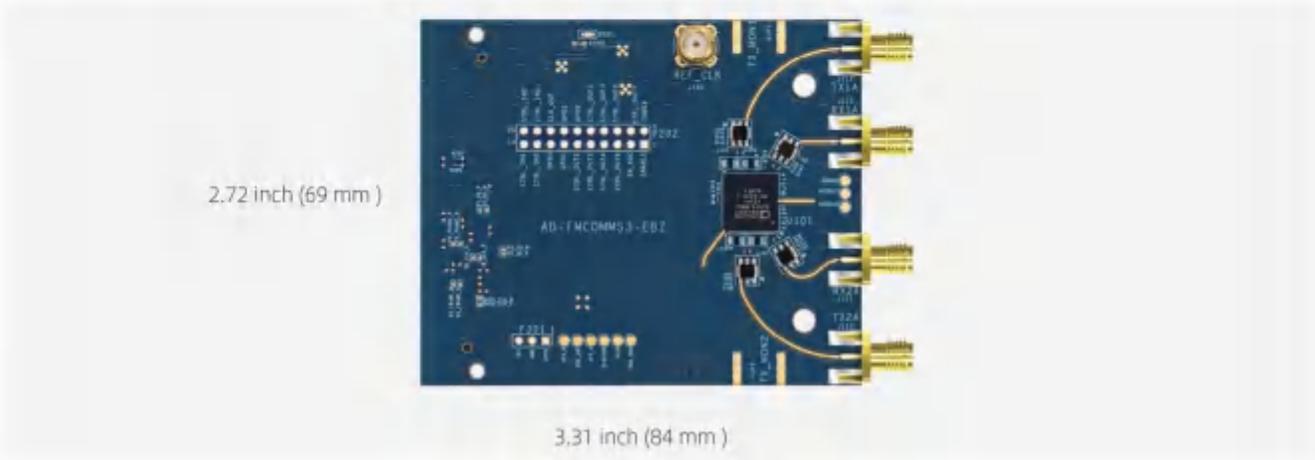
SPECIFICATION			
FPGA Chip	XC7Z100-2FFG900I	EMMC	8GB
Processor Core	Dual Core ARM Cortex-A9, Main Frequency 800MHz	RF Clock	40M VCTO10(0.5PPM) / Ipek Input/ External Input (Default 40M VCTO10, OCXO available as an option)
RF Chip	AD9361	Clock Input/ Gigabit Ethernet	1 Clock on PS Side/ 1 Ethernet on PL Side
Frequency/ Signal	70M-6GHz / 200K-56MHz	USB 3.0/ USB 2.0-OTG	1 / 1
Power Amplifier	10-15dbm	UART/JTAG/SD Cart Slot/GPS	1 / 1 / 1 / 1
DDR3/DD3L	1GB on PS Side, 1GB on PL Side GB	Power Supply	12-36V
QSPI FLASH	256Mb		



## PZ-FL9361

### SPECIFICATION

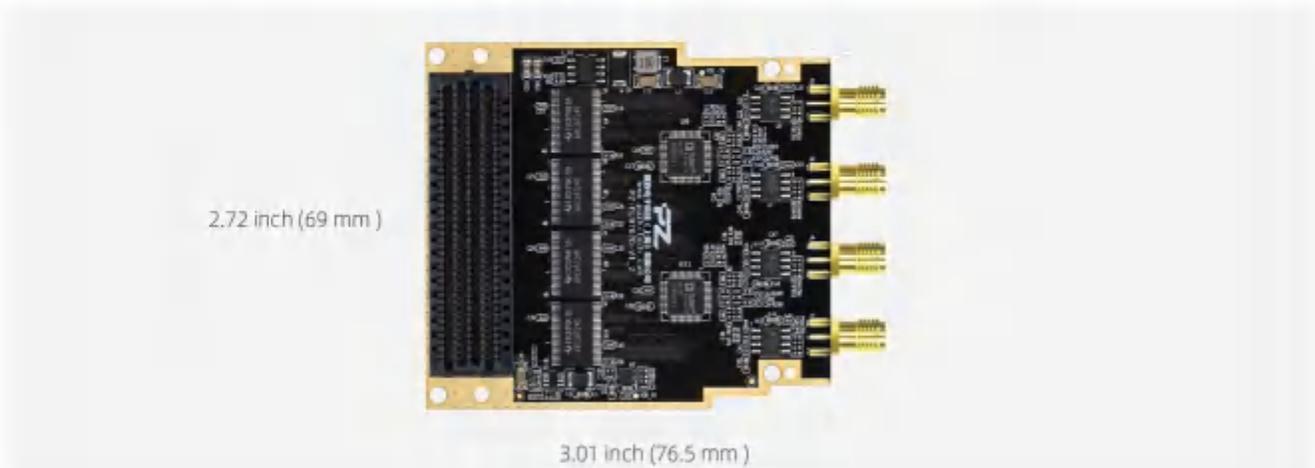
Module	PZ-FL9361	FMC Interface	FMC LPC
RF Chip	AD9361	Chip Level	Industrial Grade (-40°C ~ +85°C)
RF Frequency Range	70M-6Ghz	Power Supply	Powered from FMC Interface (12V)
Signal Bandwidth	200K-56Mhz		



## PZ-FL9767D

### SPECIFICATION

DAC Chip	AD9767	Voltage Range	±5V
Number of Channels	4	Chip Level	Industrial Grade (-40°C ~ +85°C)
Number of Bits	14 bit	Power Supply	Powered from FMC Interface (12V)
Maximum Sampling Rate	125MSPS	FMC Interface	FMC LPC



# PZ-FL3867

## SPECIFICATION

	ADC Parameters	DAC Parameters		ADC Parameters	DAC Parameters
Chip	AD9238	AD9767	Input/Output Mode	DC	DC
Number of Channels	2	2	Number of Bits	12bit	14bit
Trigger Channel	1 (3.3V LVCMOS)		Maximum Sampling Rate	65MSPS	125MSPS
FMC Interface	FMC LPC		Voltage	±5V	±5V
Chip Level	Industrial Grade (-40°C ~ +85°C)		Power Supply	Powered from FMC Interface (12V)	

2.72 Inch (69 mm)



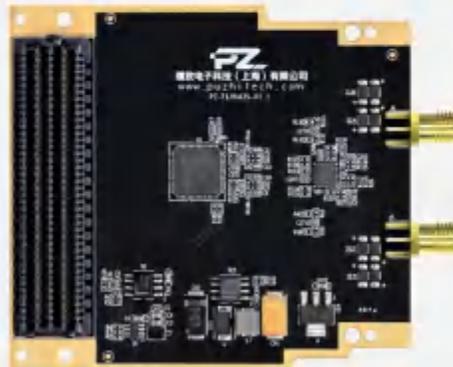
3.01 Inch (76.5 mm)

# PZ-FL9643S

## SPECIFICATION

	ADC Parameters		Number of Bits	14bit
ADC Chip	AD9643	Maximum Sampling Rate	250MSPS	
Number of AD Channels	2	Voltage Range	1.75VPP	
Trigger Channel	1	Chip Level	Industrial Grade (-40°C ~ +85°C)	
Clock Channel	1	Power Supply	Powered from FMC Interface (12V)	
FMC Interface	FMC LPC			

2.72 Inch (69 mm)



3.01 Inch (76.5 mm)

## PZ-FL9643D

### SPECIFICATION

ADC Chip	AD9643	Maximum Sampling Rate	250MSPS
Number of AD Channels	4	Voltage Rang	1.75VPP
Trigger Channel	1	Chip Level	Industrial Grade (-40°C ~ +85°C)
Clock Channel	1	Power Supply	Powered from FMC Interface (1.2V)
Input Mode	DC/AC Dual Use (Default DC)	FMC Interface	FMC LPC
Number of Bits	14 bit		

2.72 inch (69 mm )



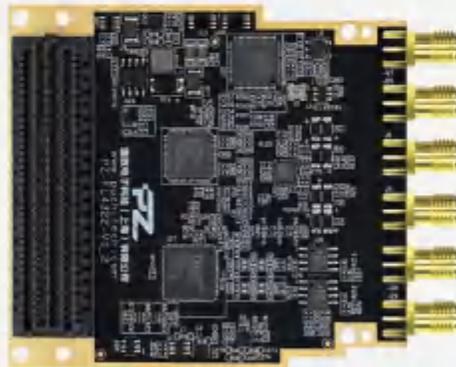
3.01 inch (76.5 mm )

## PZ-FL4322

### SPECIFICATION

	ADC Parameters	DAC Parameters		ADC Parameters	DAC Parameters
Module	AD9643	AD9122	Number of Bits	14bit	16bit
Number of Channels	2	2	Maximum Sampling Rate	250MSPS	500MSPS
Trigger / Clock	1 ( 3.3V LVCMOS) / 1		Voltage/ Current Range	1.75VPP	8.7-31.7mA Adjustable
FMC Interface	FMC LPC		Chip Level	Industrial Grade (-40°C ~ +85°C)	
Input/ Output Mode	直流/交流两用(默认直流)		Power Supply	Powered from FMC interface (1.2V)	

2.72 inch (69 mm )



3.01 inch (76.5 mm )

## PZ-FH8052

### SPECIFICATION

	ADC Parameters	DAC Parameters		ADC Parameters	DAC Parameters
Module	AD9680	AD9152	Number of Bits	14bit	16bit
Number of Channel	2	2	Maximum Sampling Rate	1GB5PS	1.125GSPS
Trigger/ Clock	1 (3.3V LVCMOS)/1		Voltage/ Current Range	1.7VPP	4-20mA Adjustable
Power Supply	FMC HPC		Chip Level	Industrial Grade (-40°C ~ +85°C)	
Input/ Output Mode	AC	AC	Power Supply	Powered from FMC interface (12V)	

2.72 inch (69 mm)



3.01 inch (76.5 mm)

## PZ-FL2514D

### SPECIFICATION

ADC Chip	AD250D14	Maximum Sampling Rate	250MSPS
Number of AD channels	4	Voltage Range	1.5VPP
Trigger/ Clock	1/ 1	Chip Level	Industrial Grade (-40°C ~ +85°C)
Input Mode	DC/AC Dual Use (Default DC)	Power Supply	Powered from FMC Interface (12V)
Number of Bits	14bit	FMC Interface	FMC LPC

2.72 inch (69 mm)

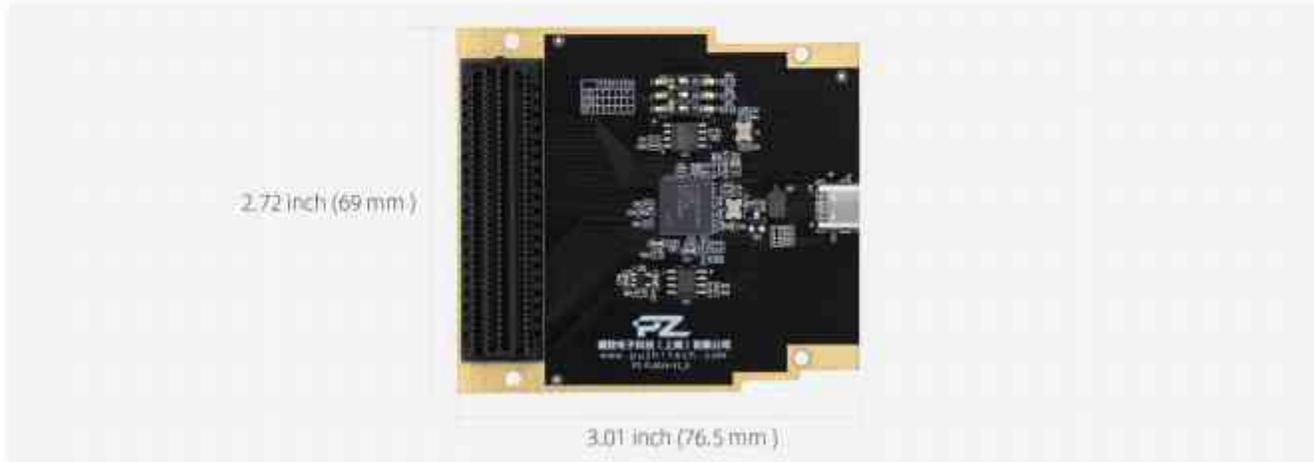


3.01 inch (76.5 mm)

## PZ-FL3014

### SPECIFICATION

USB3.0 Chip	CY1583014	Chip Level	-40~85°C
Limit Speed	3.2Gb	Power Supply	Powered from FMC interface (1.2V)
Communication Interface	Type C	FMC Interface	FMC LPC



## PZ-FL8710

### SPECIFICATION

Gigabit Ethernet Chip	LAN8710	Chip Level	Industrial Grade (-40°C ~ +85°C)
Number of Channels	4	Power Supply	Powered from FMC interface (1.2V)
Communication Interface	MII/RMI	FMC Interface	FMC LPC



## PZ-FL8211F

### SPECIFICATION

Gigabit Ethernet Chip	RTL8211F1	Chip Level	-40~85°C
Number of Channels	4	Power Supply	Powered from FMC Interface (12V)
Communication Interface	RGMII	FMC Interface	FMC LPC

2.95 inch (75mm)



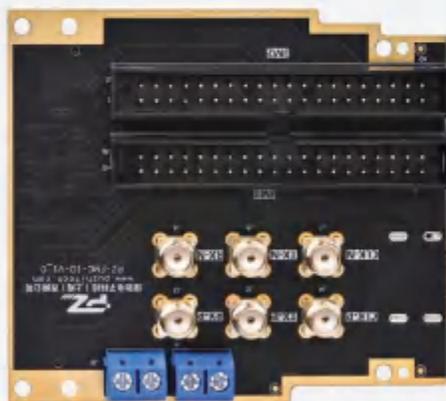
2.95 inch (75mm)

## PZ-FL-IO

### SPECIFICATION

CAN	1	<b>40P Expansion Ports</b>	Total 64 IOs: Reserve two 40-pin 0.1 inch Expansion Ports to Connect Puzhi Modules (AD/DA, Camera, LCD) Expansion Port including 5V Power Supply 3.3V Power Supply, 6 Ground, 32 IOs
RS485	1		
Number of GTX	1 Pair of TX/RX/CLK Each	<b>Form Factors</b>	3.01 inch x 2.72 inch (76.5mm x 69mm)
HDMI Output	1		
Connector Type	FMC LPC		

2.72 inch (69 mm)



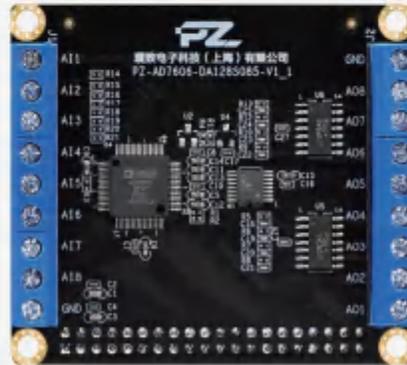
3.01 inch (76.5 mm)

## PZ7606

### SPECIFICATION

	ADC Parameters	DAC Parameters		ADC Parameters	DAC Parameters
Module	AD7606	DAC128S085CIMTX	Voltage Range	-10~+10V	0~5V
Number of Bits	16bit	12bit	Chip Level	-40~85°C	-40~85°C
Max. Sampling Rate	200KSPS	-			

2.28 inch (58mm)



2.60 inch (66mm)

## PZ-LCD430

### SPECIFICATION

Form Factors	4.3 Inch	Pixel Pitch	0.198*0.198 (mm)
Display Pixels	480 (RGB) * 272	Pixel Display Area	95.04*53.86 (mm)
Interface Bits	RGB 24bits	Weight	44.065g
Colour Depth	16.7M	Number of LEDs	10 LEDs

2.68 inch (68 mm)

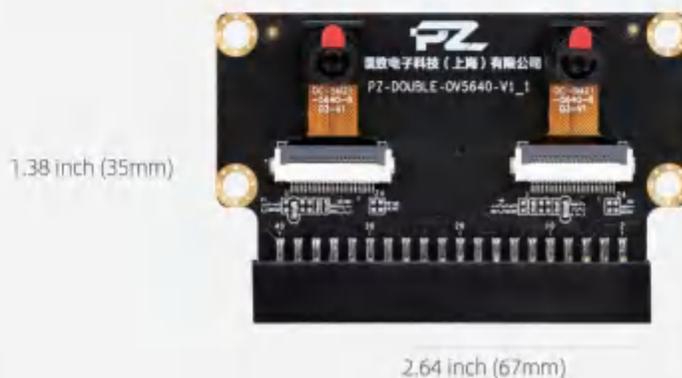


4.72 inch (120 mm)

## PZ5640-D

### SPECIFICATION

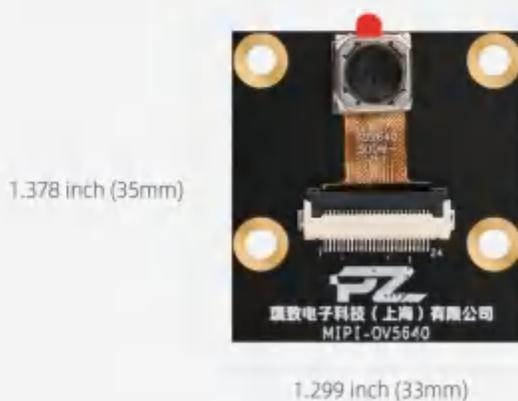
Interface	40-pin Female Connector, DVP Connector	Image Formats	RAW RGB, RGB565/555/444, CCIR656 YUV422/420, YCbCr422 and Compression
Pixel	500 Million	Captured Images	Q5XGA (2592x1944), 1080p, 1280 x 960, VGA (640x480), QVGA (320x240)
Sensitive Chip	2 Units of OV5640	Working Temperature	0~50°C
Sensitive Size	1/4	Spacing	The Spacing of 2-way cameras is 40mm
Lens Parameters	5MP/M12 Interface, Focus 3.6mm		
Module Content	Includes OV5640 Power Circuit and Clock		
Function Support	Manual Focus, AEC, AWB		



## PZ5640-M

### SPECIFICATION

Interface	MIPI Interface	Image Formats	RAW RGB, RGB565/555/444, CCIR656 YUV422/420, YCbCr422 and Compression
Pixel	Hardware Pixel 5 Million	Captured Images	Q5XGA (2592 x 1944), 1080p, 1280 x 960, VGA (640 x 480), QVGA (320 x 240)
Sensitive Chip	OV5640	Working Temperature	-30~70°C, Stable Working Tem. is 0~+50°C
Sensitive Size	1/4		
Lens Parameters	5MP/M12 Interface, Focus 3.6mm		
Module Content	Contains OV5640 Power Supply Circuit		



## PZ-SSD

### SPECIFICATION

Module	PZ-SSD	Clock Source	On-Board Clock (100MHz)
PCIe Connectors	x 8 Female Connectors	Voltage/ Current	12V
SSD(NVME) Interface	1 x M.2 interface with x 4 Support	Form Factors	4.17 inch x 2.20 inch (106mm x 56mm)

2.20 inch (56 mm)



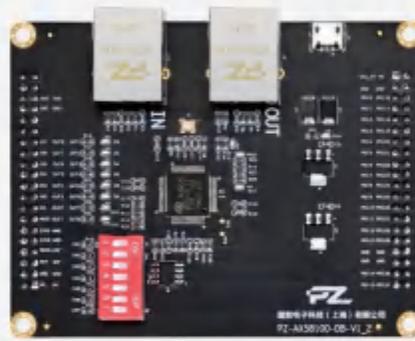
4.17 inch (106 mm)

## PZ-ECAT58100

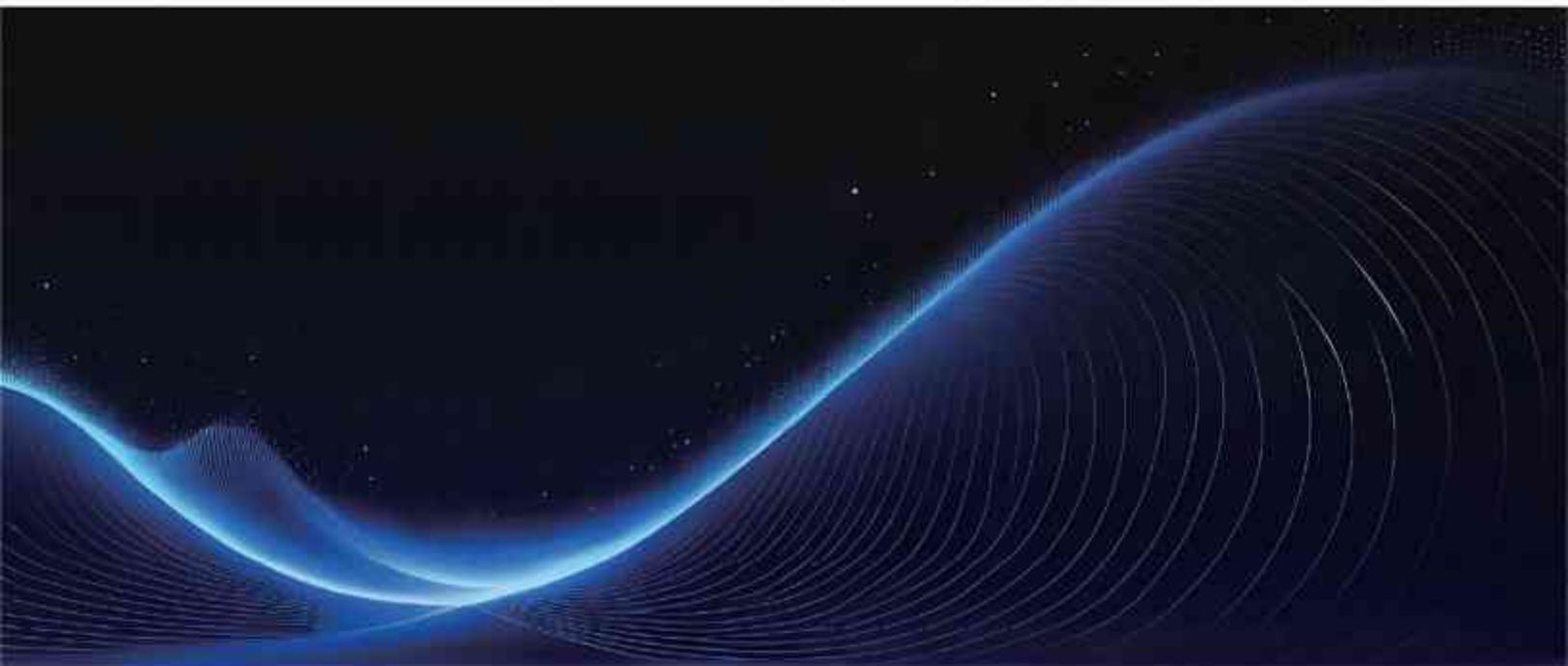
### SPECIFICATION

Module	AX58100	Chip Level	Industrial Grade (-40°C~+ 85°C)
Master-Slave Type	Slave	Voltage/ Current	5V/1A
Communication	Parallel Port (SPI Interface)	Form Factors	3.78 inch x 2.87 inch (96mm x 73mm)

2.87 inch (73 mm)



3.78 inch (96 mm)



## **Puzhi Electronic Technology (Shanghai) Co.**

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