

# sunix®

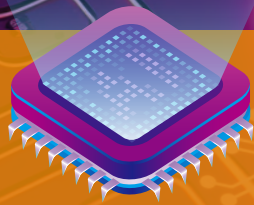


## 2024 PRODUCT GUIDE

Ver.1



# AI Inference Accelerator PCIe Card



- Delivering 26-104 TOPS (Tera Operations Per Second)
- OS Support: Linux / Windows
- AI frameworks: Tensorflow / Tensorflow Lite / Keras / Pytorch & ONNX
- Highest power-efficiency (FPS/Watt) compared with GPU solutions
- Comprehensive software suite supported and model conversion service

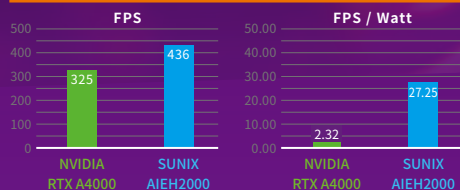


## SUNIX Advantages

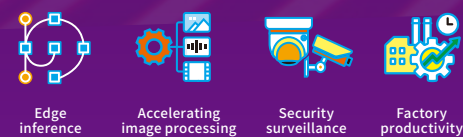
- ▶ Model Compiling Service
- ▶ Model Conversion Service
- ▶ Model Fine-tune
- ▶ Fast Deployment



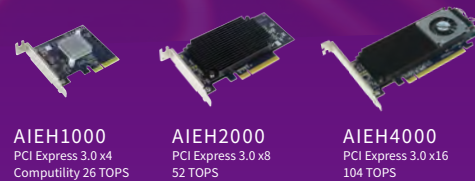
## Performance comparison (Yolov5m)



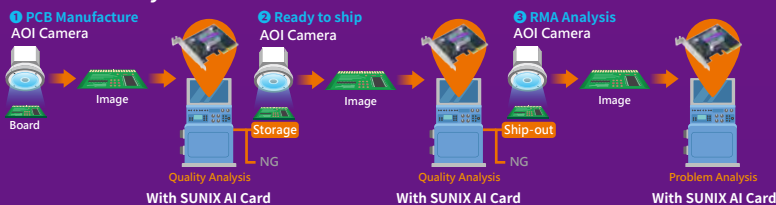
## Application / Field



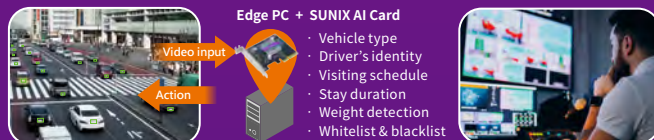
## Product family



## PCB AI AOI System



## License Plate AI Recognition

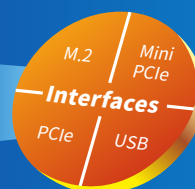


## SUNIX ODM Service

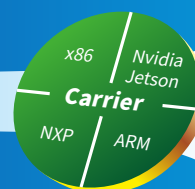
One-stop Solution Design Service  
for I/O Expansions



Varies Combination



PC Expansions

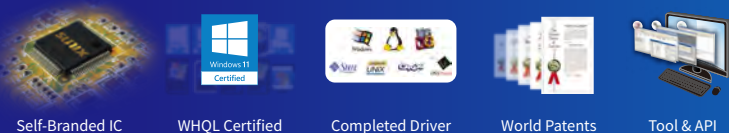


I/O Carrier Board



- SPI / eSPI module
- Daughter board
- Carrier board
- OPS extension
- Embedded I/O Module

## SUNIX I/O Card Feature



## SUNCAN Advantages



# IoT Products

## Gateway Ethernet IO Gateway



**EZG1200**  
Microsoft Azure Gateway

**EZG1300**  
MQTT Gateway

## DevicePort I/O Remote IO (DIO/AI)



AI model

DIO model

**EZR5231**  
4-port AI

**EZR5002**  
2-port DI  
4-port DO

**EZR5003**  
3-port DI  
3-port DO

**EZR5004**  
4-port DI  
2-port DO

Industrial



Serial model

AI model

DIO model

Combo model

**EZISNNN40**  
4-port COM

**EZIAINN80**  
8-port AI

**EZIDIDIFF**  
32-port DI

**EZIAIDI8F**  
8-port AI  
16-port DI

**EZISNSN44**  
8-port COM

**EZIDCNN80**  
8-port DI  
8-port DO

**EZIAIDC88**  
8-port AI  
8-port DI  
8-port DO

**EZIDIDOFF**  
16-port DI  
16-port DO

## DevicePort Remote IO (RS-232/422/485)

Industrial



**DPA301HTP**  
1-port RS-232/422/485  
(3-in-1)



**DPAD02HTP**  
2-port RS-422/485



**DPAS01D00**  
1-port RS-232  
  
**DPA301D00**  
1-port RS-232/422/485  
(3-in-1)



**DPAS02H00**  
2-port RS-232



**DPAS04H00**  
4-port RS-232



**DPAS08H00**  
8-port RS-232

## Device Server



**IDSX02DW0**  
RS-232

**IDS02DW0**  
RS-422/485

**IDS302DW0**  
RS-232/422/485

**IDS302DWS**  
RS-232/422/485  
w/ Surge & Isolation

2-port



**IDSX04DW0**  
RS-232

**IDS04DW0**  
RS-422/485

**IDS304DW0**  
RS-232/422/485

**IDS304DWS**  
RS-232/422/485  
w/ Surge & Isolation

4-port



**IDSX08DW0**  
RS-232

**IDS08DW0**  
RS-422/485

**IDS308DW0**  
RS-232/422/485

**IDS308DWS**  
RS-232/422/485  
w/ Surge & Isolation

8-port

## ECS Application Kits



**KSF1001G**  
IoT Integrated Solution



**KPE1301**  
Smart Meter Monitoring



**KEM1103**  
Environmental Monitoring



**KEM1401**  
Machine Operation Rate



**KEM1501**  
Intelligent Virtual Fence



# Add-on Cards

## WHQL Certification

SUNIX products have passed strict X86/X64 Microsoft WHQL certification, ensuring customers' full compatibility.

### M.2 Card

#### CAN FD **NEW**



**CANM2102SI**  
2-port CAN FD  
Industrial  
M.2 Card  
w/ Surge & Isolation  
(Type-2280)

#### Digital I/O **NEW**



**IPC-M4443I**  
4-Ch Digital In  
4-Ch Digital Out  
Industrial  
M.2 Card  
w/ Isolation  
(Type-2280)



**IPC-M4884I**  
8-Ch Digital In  
8-Ch Digital Out  
Industrial  
M.2 Card  
w/ Isolation  
(Type-2280)

#### RS-422/485



**IPC-B2108**  
8-port RS-422/485  
PCI/104 Card

#### RS-232



**M2S6437A**  
2-port RS-232  
  
**M2S6456A**  
4-port RS-232  
M.2 Card  
(Type-2242)

#### RS-422/485



**IPC-M2202S**  
Industrial 2-port  
  
**IPC-M2204S**  
Industrial 4-port  
RS-422/485  
M.2 Card  
w/ Surge  
(Type-2280)

#### RS-232/422/485 **NEW**



**IPC-M3202**  
Industrial 2-port  
RS-232/422/485  
M.2 Card  
(Type-2280)

### PCIe Card

#### RS-232 / Parallel



**SER6427A**  
1-port RS-232  
PCIe Card



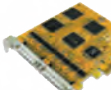
**SER6437A**  
2-port RS-232  
PCIe Card



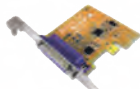
**SER6456A**  
4-port RS-232  
PCIe Card



**SER5466A**  
8-port RS-232  
PCIe Card



**SER5416H**  
16-port RS-232  
PCIe Card



**PAR6408A**  
1-port IEEE1284  
Parallel  
PCIe Card



**PAR5418A**  
2-port IEEE1284  
Parallel  
PCIe Card



**MIO6469A**  
1-port RS-232 &  
1-port Parallel  
PCIe Multi-I/O Card



**MIO6479A**  
2-port RS-232 &  
1-port Parallel  
PCIe Multi-I/O Card



**MIO5499A**  
4-port RS-232 &  
1-port Parallel  
PCIe Multi-I/O Card

#### RS-422/485



**IPC-E2202SI**  
Industrial 2-port  
RS-422/485  
PCIe Card  
w/ Surge & Isolation



**IPC-E2204SI**  
Industrial 4-port  
RS-422/485  
PCIe Card  
w/ Surge & Isolation



**IPC-E2108SI**  
Industrial 8-port  
RS-422/485  
PCIe Card  
w/ Surge & Isolation

#### RS-232/422/485 **NEW**



**IPC-E3202S**  
Industrial 2-port  
RS-232/422/485  
PCIe Card  
w/ Surge



**IPC-E3204S**  
Industrial 4-port  
  
**IPC-E3308S**  
Industrial 8-port  
RS-232/422/485  
PCIe Card  
w/ Surge

#### CAN FD **NEW**



**CANE2102SI**  
2-port CAN FD  
Industrial PCIe Card  
w/ Surge & Isolation



**CANE2104SI**  
4-port CAN FD  
Industrial PCIe Card  
w/ Surge & Isolation

#### Digital I/O



**SDC0880I**  
8-Ch Digital In  
8-Ch Digital Out  
  
**SDC0FF0I**  
16-Ch Digital In  
16-Ch Digital Out  
Industrial PCIe Card  
w/ Isolation

#### Serial + Digital I/O



**SDC4880B**  
2-port internal RS-232/422/485  
2-port external RS-232/422/485  
8-Ch Digital In  
8-Ch Digital Out  
Industrial PCIe Card  
w/ Surge & Isolation

### MiniPCIe Card

#### CAN FD **NEW**



**CANC2102SI**  
2-port CAN FD  
Industrial  
MiniPCIe Card  
w/ Surge & Isolation



**IPC-C4443I**  
4-Ch Digital In  
4-Ch Digital Out  
  
**IPC-C4884I**  
8-Ch Digital In  
8-Ch Digital Out  
Industrial  
MiniPCIe Card  
w/ Isolation



**IPC-C2202S**  
2-port RS-422/485  
  
**IPC-C2204S**  
4-port RS-422/485  
Industrial  
MiniPCIe Card

#### RS-232



**MCS6437A**  
2-port RS-232  
  
**MCS6456A**  
4-port RS-232  
MiniPCIe Card



**MCS6456P**  
4-port RS-232  
MiniPCIe Card  
w/ Power Output

### PCI Card

#### RS-232 / Parallel



**SER5027A**  
1-port RS-232  
PCI Card



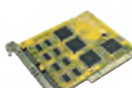
**SER5037A**  
2-port RS-232  
PCI Card



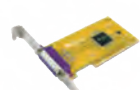
**SER5056A**  
4-port RS-232  
PCI Card



**SER5066A**  
8-port RS-232  
PCI Card



**SER5016H**  
16-port RS-232  
High Speed  
PCI Card



**PAR5008A**  
1-port Parallel  
PCI Card



**PAR5018A**  
2-port Parallel  
PCI Card



**MIO5079A**  
2-port RS-232 &  
1-port Parallel  
PCI Multi-I/O Card



**MIO5099A**  
4-port RS-232 &  
1-port Parallel  
PCI Multi-I/O Card

#### RS-422/485



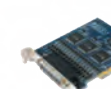
**IPC-P2102SI**  
Industrial 2-port  
RS-422/485  
PCI Card  
w/ Surge & Isolation



**IPC-P2104SI**  
Industrial 4-port  
RS-422/485  
PCI Card  
w/ Surge & Isolation



**IPC-P2108SI**  
Industrial 8-port  
RS-422/485  
PCI Card  
w/ Surge & Isolation



**IPC-P2116**  
Industrial 16-port  
RS-422/485  
PCI Card  
w/ Surge & Isolation

#### RS-232/422/485



**IPC-P3104**  
Industrial 4-port  
  
**IPC-P3108**  
Industrial 8-port  
RS-232/422/485  
PCI Card

# Extension Accessories



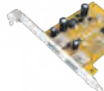
## USB Series

### USB4 **NEW**



**UPB2430(ODM)**  
USB4 40 Gbit/s  
PCIe Host Card  
w/ Type-C Receptacle  
Support DP1.4a

### USB 3.2 Gen1

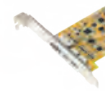


**USB2302**  
USB 3.2 Gen1 2-port  
PCIe Host Card  
(USBIF TID 350000174)



**USB4300NS**  
USB 3.2 Gen1 4-port  
PCIe Host Card  
(USBIF TID 350000211)

### USB 3.2 Gen2(Alt-Mode)



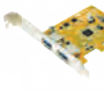
**UPA2015 **NEW****  
USB 3.2 Gen2 10G & DisplayPort 1.4/1.2  
PCIe Host Card w/ Dual Type-C Receptacle  
(Alt-Mode)

### USB 3.2 Gen2x2



**USB2321C**  
USB 3.2 Gen2x2 20G  
PCIe Host Card  
w/ Type-C Receptacle

### USB 3.2 Gen2



**USB2312A**  
USB 3.2 Gen2 2-port  
PCIe Host Card  
w/ Type-A Receptacle



**USB2312C**  
USB 3.2 Gen2 2-port  
PCIe Host Card  
w/ Type-C Receptacle

### Powered USB



**PUB1200X**  
1-port 24V Powered USB  
& 2-port 12V Powered USB  
PCIe Host Card

## USB Type-C Adapter



**C2VC7C0**  
USB Type-C  
to VGA Adapter



**A2CZ0T0**  
USB 3.1 Gen2 10G  
USB Type-A to Type-C  
Active Dongle



**C2HF3C1 **NEW****  
USB-C to **HDMI 2.1 (8K@60Hz / 4K@144Hz) Active Adapter**  
W/ Detachable USB-C PD Cable

**C2HF3C1P **NEW****  
USB-C to **HDMI 2.1 (8K@60Hz / 4K@144Hz) Active Adapter**  
W/ Detachable USB-C PD Cable  
W/ PD Powered 60W USB-C Charging Port

## Video Converter



**D2H13MD**  
DisplayPort  
to **HDMI 2.0 4K@60Hz**  
Active Dongle



**D2H13N0**  
DisplayPort  
to HDMI Dongle



**D2V17C0**  
DisplayPort  
to VGA Dongle



**H2V37C0**  
HDMI  
to VGA Dongle



**I2V67C0 **NEW****  
DVI-D  
to VGA Adapter



**H2V97C0**  
HDMI  
to VGA Adapter



**H2V57C0**  
Micro HDMI  
to VGA Adapter

## 2.5G Network PoE Series



**LAN1225PS**  
1-port 2.5G BASE-T  
Network PoE  
PCIe Card  
Power Input options:  
PCIe Bus power - 12V  
SATA power - 12V



**LAN2225P**  
2-port 2.5G BASE-T  
Network PoE  
PCIe Card  
Power Input options:  
PCIe Bus power - 12V  
6 pin GPU power - 12V  
External power - 12V~24V

## OCuLink Series



**OCUM4221 **NEW****  
M.2 2280 M key PCIe Gen4x4  
to OCuLink 4i SFF-8612  
Adapter

+

**OCUE4241 **NEW****  
OCuLink 4i SFF-8612  
to PCIe Gen4x16 slot(4 lanes)  
Extension Board

## PCIe to M.2



**P2M04M01**  
PCIe Gen3x4  
to M.2 (Key-B+M)  
PCIe Card  
(Support PCIe #CLK\_REQ)  
M.2 Module Format:  
2280 / 2260 / 2242 / 2230



**P2M16M40 **NEW****  
PCIe Gen4  
to M.2 Key-M x4  
PCIe Card  
M.2 Module Format:  
2280 / 2260 / 2242

## USB to I/O Adapter

### RS-232



**UTS1009GC**  
USB to 1-port  
**UTS1009DF**  
USB to 1-port w/FTDI IC  
**UTS2009GC**  
USB to 2-port  
RS-232 Adapter



**UTS4009PF**  
USB to 4-port  
RS-232 Serial HUB

### RS-422/485 **NEW**



**UTS1109B**  
USB to 1-port  
RS-422/485 Adapter



**UTS4109P**  
USB to 4-port  
RS-422/485 ComHUB

### Powered COM **NEW**



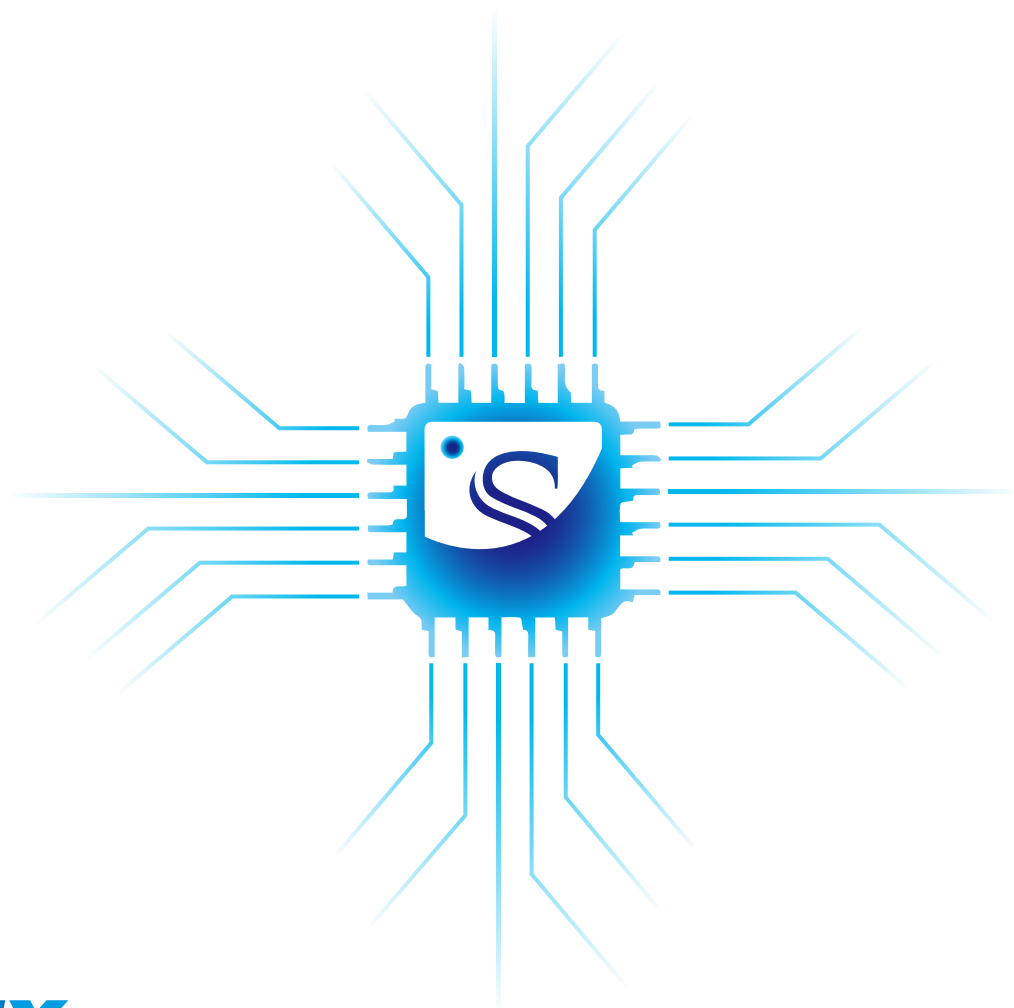
**UTS4009C**  
USB-C to 4-port  
Powered RS-232  
Serial Hub

### Printer Port



**UTP1025B**  
USB to Printer  
Adapter

**UTM1925C**  
USB to RS-232 + Printer  
Adapter



## TAIWAN

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R&D CENTER

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SUNIX was established in 1986. In 1995, we released the world's first RS-232 single-chip communication card; ever since, we have become the go to serial cards specialist, and number one world sales leader for serial cards. SUNIX's headquarter and R&D Center is located in Taiwan, and our factory in Kunshan, China. SUNIX is one of very few vertical integration suppliers with original chip design, software/hardware/firmware designs and supports, high quality products manufacturing, as well as global sales capabilities. For more than 30 years, SUNIX has specialized in the field of "Commercial communication". In this past year, we announced a revolutionary design for the IoT era, EAZInet, a true "Plug and Play" networking technology, which is able to provide the best intelligent transmission solutions for IoT applications. At SUNIX, we are striving for environmental protection and active participation in public welfare. Like our slogan "**Plug Into A Brand-new World.**"

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