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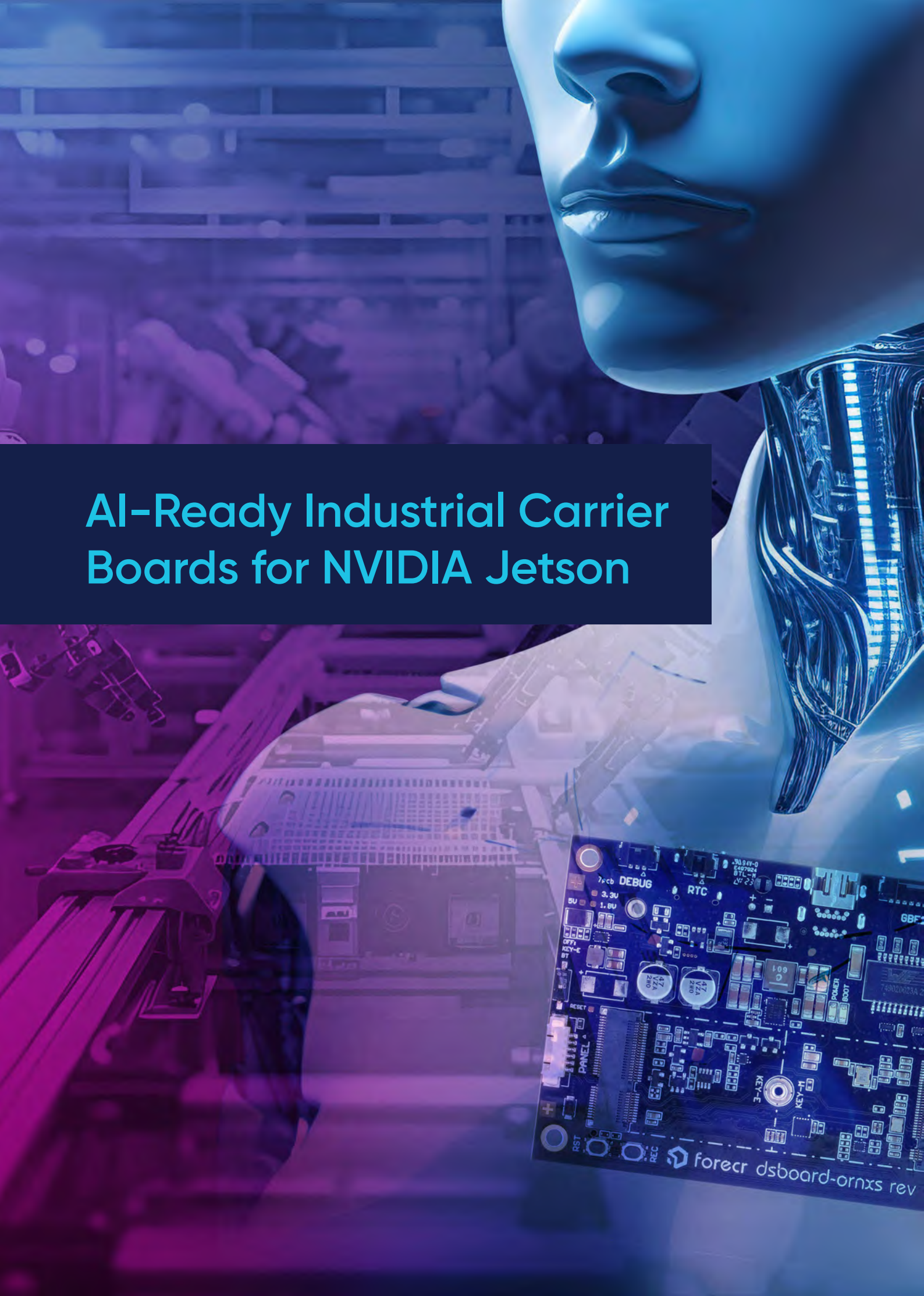
PRODUCT CATALOG

Powering Edge AI with Ready-to-Deploy Hardware Solutions

AI-Ready Industrial Carrier Boards for NVIDIA Jetson
AI-Ready Fanless Industrial Box PCs
Ruggedized Military & Railway Grade Computers
Customized Solutions

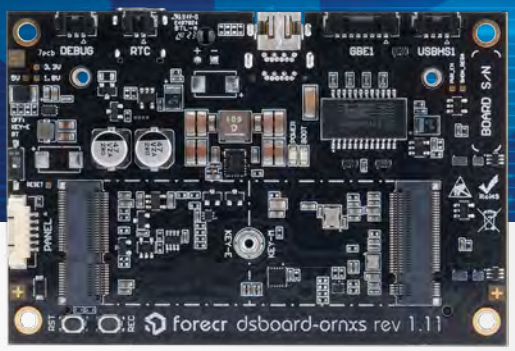
NVIDIA Preferred Partner

AI-Ready Industrial Carrier Boards for NVIDIA Jetson



DSBOARD-ORNXS

ORIN NX & ORIN NANO COMPACT CARRIER BOARD



HIGHLIGHTS

- Supports NVIDIA Jetson Orin Nano and Orin NX SOMs
- Stay connected effortlessly with built-in WiFi and Bluetooth capabilities
- Lightning-fast LPDDR5 memory options (up to 16 GB) ensure seamless multitasking
- Enjoy stunning visuals with the Mini DisplayPort supporting up to 4K Ultra HD resolution
- Customize and expand your setup with multiple extension sockets
- Gigabit Ethernet and USB 2.0 interfaces for fast and reliable data transfer
- Ubuntu Linux 20.04 and JetPack 5.1.1 support for a reliable and optimized operating system
- Wide voltage input range
- M.2 Key-M SSD slot for convenient mass storage solutions

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB NVIDIA Jetson Orin NX 8GB / 16GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5 8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x Mini DisplayPort(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 2x USB 2.0 1x CAN Bus 2X CSI 4-LANE 1x 3.0 Type-C (Recovery) 1x UART (Debug - 3.3V) 1x RTC
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x 5V FAN, 1x SPI, 1x I2S, 2x I2C, 2x UART
Mass Storage	1x M.2 Key-M 2230
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	60.5 mm x 91 mm, 43gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

DSBOARD-ORNXS is a game-changing innovation that redefines the concept of productivity and connectivity. Powered by the NVIDIA Jetson Orin Nano and Orin NX, this compact and versatile device brings unmatched processing power. With its seamless WiFi and Bluetooth connectivity, you can effortlessly collaborate and communicate with your team, breaking down barriers and unlocking new levels of efficiency.

Equipped with impressive memory options ranging from 4 GB to 16 GB of lightning-fast LPDDR5, the DSBOARD-ORNXS ensures smooth multitasking and effortless data handling. Its graphics interfaces, including a Mini DisplayPort with a maximum resolution of 3840x2160, deliver stunning visuals that elevate your work to a whole new level. Plus, with multiple extension sockets, including M.2 Key-E and 5V FAN, you have the flexibility to customize and expand your device to suit your specific needs.

Autonomous Vehicles

Smart City

Healthcare

Industrial Automation

Robotics

Transportation

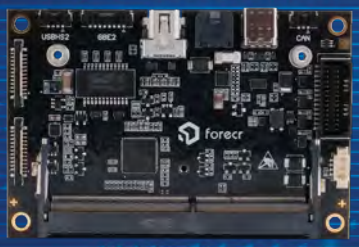
Drones/UAVs

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOARD-ORNXS

ORIN NX & ORIN NANO COMPACT CARRIER BOARD



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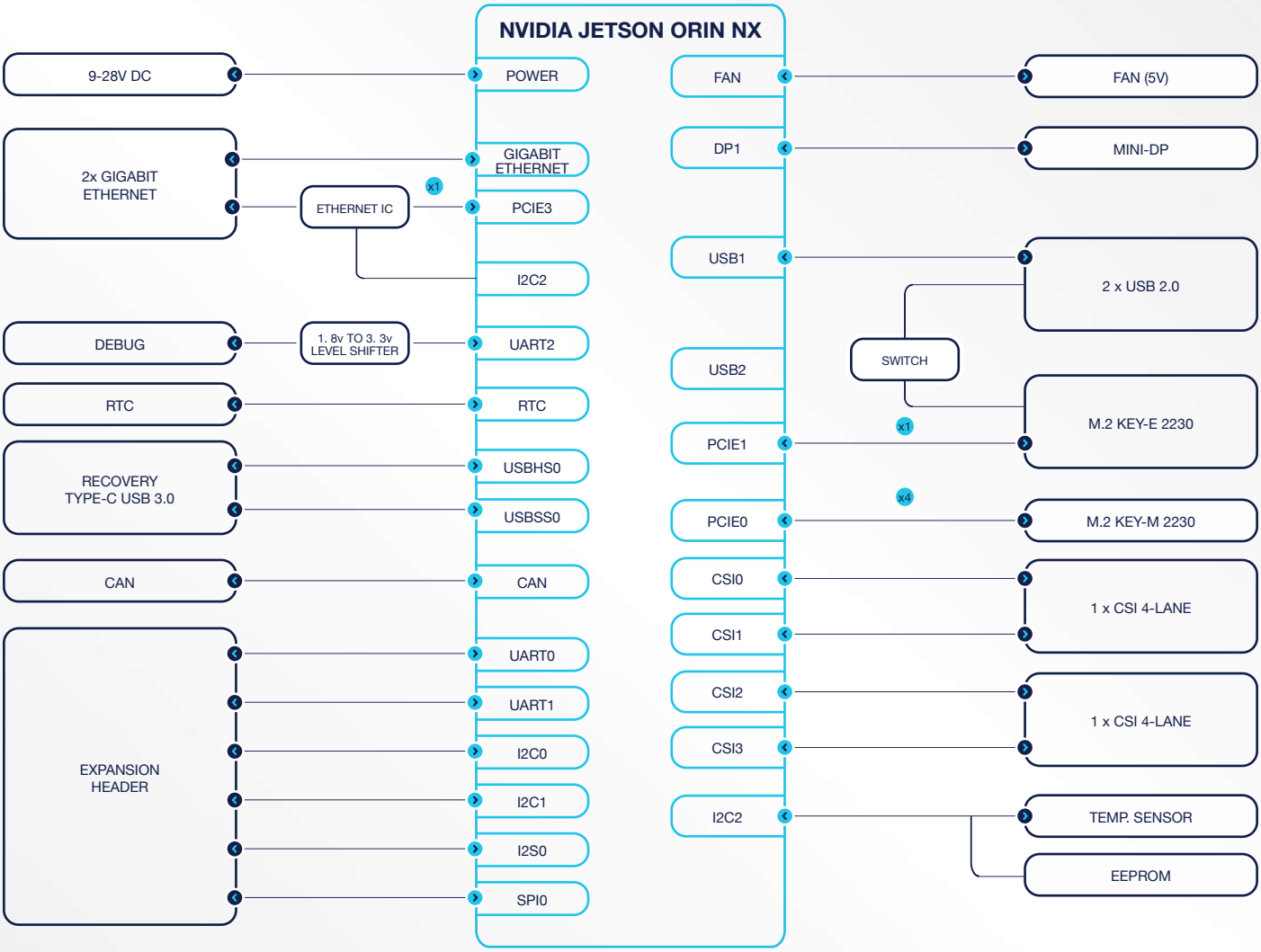

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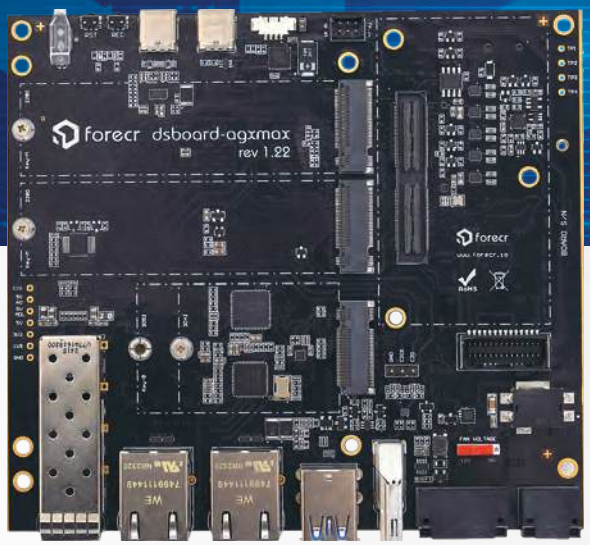
DSBOARD-AGXMAX

AGX ORIN CARRIER BOARD with 10G ETHERNET



HIGHLIGHTS

- Maximizes productivity and connectivity
- Powered by high-performance AGX Orin SoM
- Offers top-of-the-line 10G connectivity
- Dual Gigabit Ethernet, USB 3.2, HDMI, CAN
- Reliable performance for industrial apps
- Exceptional 275 TOPS of AI performance
- Unparalleled convenience and flexibility
- Robust construction, long-lasting reliability
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB NVIDIA Jetson AGX Orin Industrial
Memory	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 1x 10G (SFP+Based) 2x USB 3.1 Type-A 1x CAN Bus 1x RS232/422/485 (software configurable) 2x USB-C (Debug/Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	WiFi/Bluetooth/LTE/5G Connectivity by extension sockets
Power Supply	12-30 VDC
Extension Sockets	1x M.2 Key-B,1x M.2 Key-E, 1x SIM, 1x11V/5V Fan 1x I2C, 2x UART, 1x I2S, 2x SPI, 1x CAN 1x Camera Connector (6 CSI camera support)
Mass Storage	64 GB eMMC 5.1 Flash 2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	140 mm x 125 mm, 132gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

Introducing the DSBOARD-AGXMAX, the industrial carrier board that is built to maximize your productivity and connectivity. Powered by the high-performance AGX Orin SoM, which can deliver up to 275 TOPS of AI performance, this board offers top-of-the-line 10G connectivity, as well as Dual Gigabit Ethernet, USB 3.2, HDMI, CAN, Serial Ports, and MIPI CSI-2 Camera support.

The AGX Orin SoM processor delivers exceptional performance for industrial applications that require high-speed data transfer, real-time communication, and reliable performance. Whether you're working on machine vision, robotics, automation, or any other industrial project, the DSBOARD-AGXMAX will deliver the power and versatility you need to get the job done.

With its easy-to-use design and extensive connectivity options, the DSBOARD-AGXMAX offers an unparalleled level of convenience and flexibility. And with its robust construction and long-lasting reliability, you can be confident that this carrier board will continue to meet your needs for years to come.

Transportation
Robotics
Smart Retail
Energy
Agriculture
Autonomous Systems

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOARD-AGXMAX

AGX ORIN CARRIER BOARD with 10G ETHERNET

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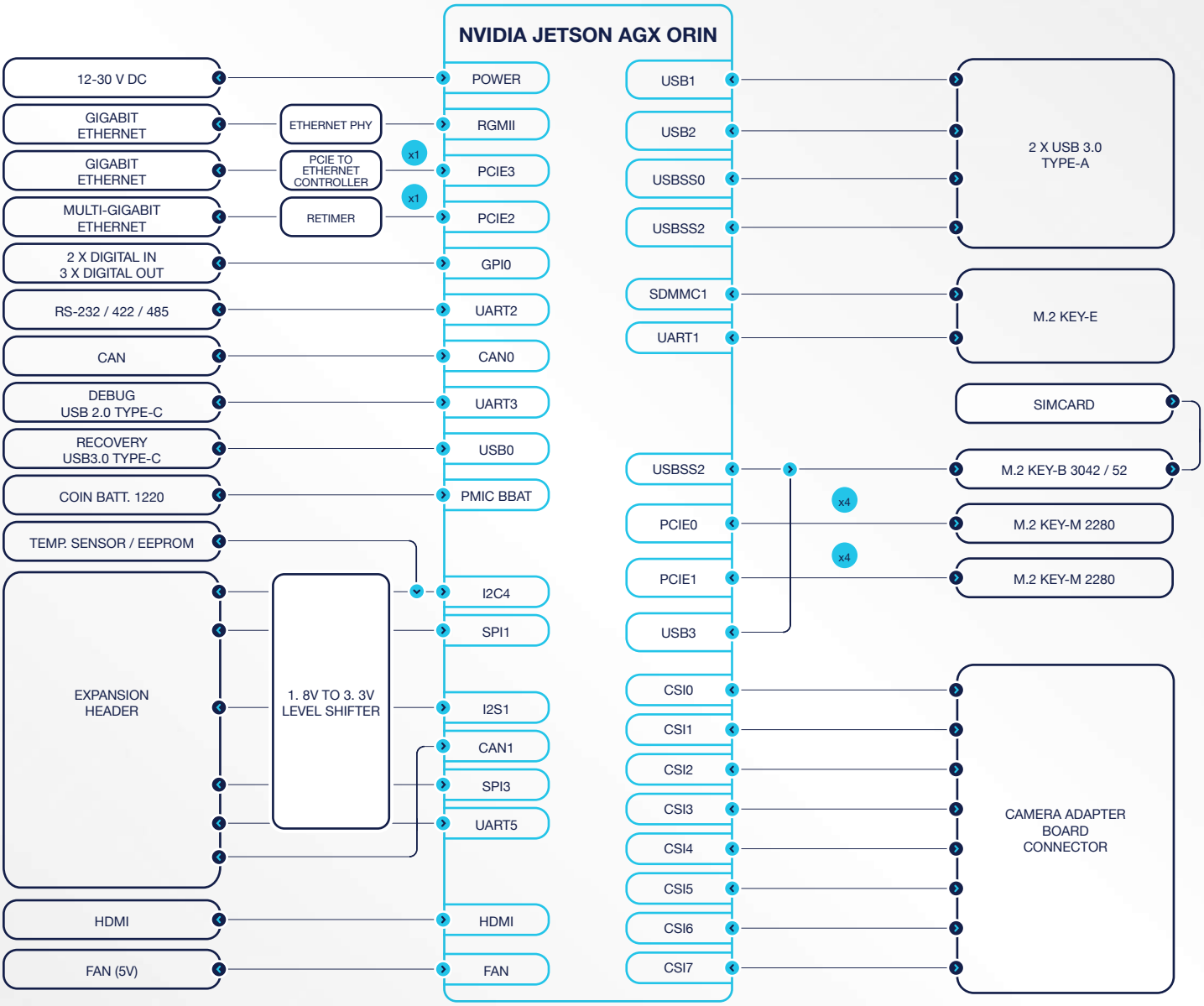

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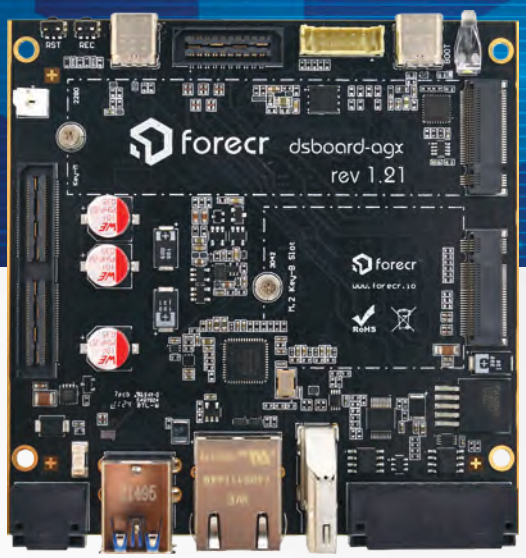
DSBOARD-AGX

AGX ORIN CARRIER BOARD



HIGHLIGHTS

- Powerful and reliable edge computing for industrial apps
- NVIDIA Jetson AGX Orin with up to 275 TOPS of AI performance
- CAN, RS-232 and Gigabit Ethernet interfaces
- HDMI 2.0b with up to 8Kp60 resolution
- Wide range of connectivity options
- Multiple expansion slots for additional peripherals
- Runs on NVIDIA JetPack SDK for building AI apps
- Designed for harsh industrial environments
- Ideal for robotics, automation, and surveillance

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB
Memory	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232/422/485 (software configurable) 2x USB-C (Debug/Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	LTE/5G Connectivity by extension sockets
Power Supply	12-30 VDC
Extension Sockets	1x M.2 Key-B, 1x SIM, 1x MicroSD, 1x 11V/5V Fan 1x SPI, 1x UART, 1x I2C, 1x PCIE (x4), 1x I2S, 1 x XFI for 10G 1x Camera Connector (6 CSI camera support)
Mass Storage	64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	100 mm x 100 mm, 103gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

DSBOARD-AGX is a powerful and reliable edge computing device designed for industrial applications that require high processing power and ruggedness. It is based on the NVIDIA Jetson AGX Orin system-on-module (SOM), which features an NVIDIA Ampere GPU with 1024 CUDA cores and up to 275 TOPS (trillion operations per second) of AI performance. The AGX Orin SOM also includes a 12-core ARMv8.2 CPU and a dedicated deep learning accelerator for efficient inferencing.

The DSBOARD-AGX features a wide range of connectivity options, including Gigabit Ethernet, USB 3.0, HDMI, and RS-232, as well as multiple expansion slots for adding additional peripherals such as MIPI CSI-2 cameras.

The DSBOARD-AGX runs on the NVIDIA JetPack SDK, providing a complete software development environment for building and deploying AI applications in industrial environments. With its powerful AGX Orin SOM, the DSBOARD-AGX is capable of running complex AI algorithms and processing large amounts of data in real-time, making it an ideal choice for industrial applications such as robotics, automation, and surveillance.

Transportation

Security and Surveillance

Healthcare

Robotics

Industrial Automation

Agriculture

RoHS COMPLIANT

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DSBOARD-AGX

AGX ORIN CARRIER BOARD

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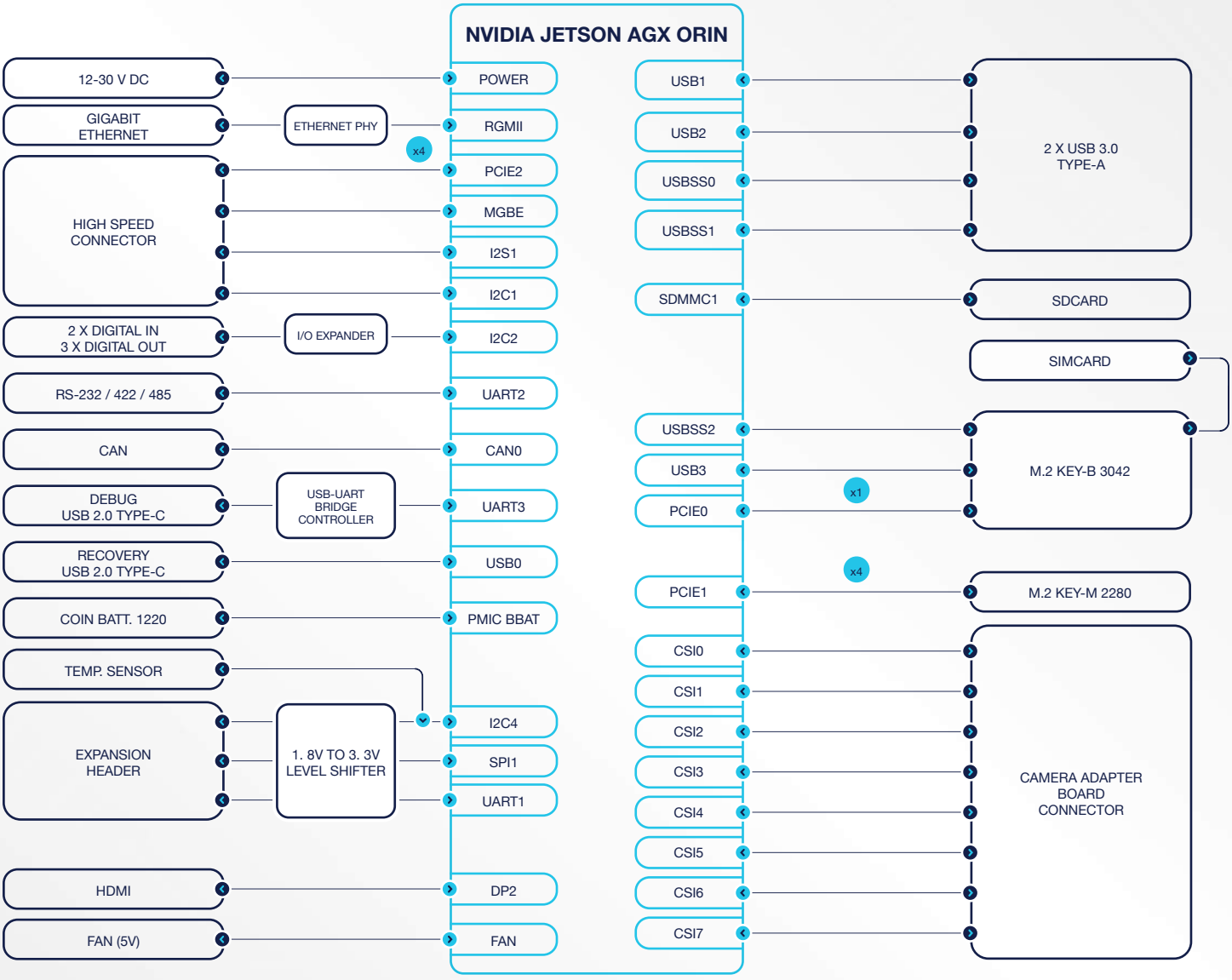

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DSBOARD-NX2

NVIDIA JETSON NANO & TX2NX
& XAVIER NX CARRIER BOARD

HIGHLIGHTS

- Supports NVIDIA Jetson Nano, TX2 NX and Xavier NX SOMs
- AI ready for edge analytics with 21 TOPS AI performance
- 4K Video Display (HDMI 2.0)
- Industrial IO options (RS232/485, CAN Bus, Digital I/Os)
- Rich extension options (M.2 Key-E, M.2 Key-B, M.2 Key-M)
- High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- Robust power design
- Wide voltage input range
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Nano NVIDIA Jetson Xavier NX 8GB / 16GB NVIDIA Jetson TX2 NX
Memory	4 GB 64-bit LPDDR4 8 GB 128-bit LPDDR4x / 16 GB 128-bit LPDDR4x 4GB 128-bit LPDDR4
Graphics Interfaces	1x HDMI 2.0 (max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus (Only in Xavier NX and TX2NX SoM) 1x RS232/422/485 (software configurable) 1 x microUSB (Recovery) 1 x UART (Debug, 3.3V) 2x CSI 2-LANE 2x Digital Input 3x Digital Output
Wireless Communication	WiFi/Bluetooth/LTE/5G Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x M.2 Key-B, 1x MicroSD, 1x SIM, 1x 5V FAN, 1x SPI, 1x UART, 1x I2C
Mass Storage	16 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	100 mm x 100 mm, 85gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
JetPack Support	JetPack 4.x JetPack 5.x

The DSBOARD-NX2 is a carrier board designed to support the NVIDIA Xavier NX, Jetson Nano, and TX2 NX System on Modules (SoMs) for advanced edge computing applications.

The carrier board features multiple camera connectors, Gigabit Ethernet, HDMI, and USB 3.0, providing a wide range of I/O interfaces for your project needs. Additionally, it supports PCIe and M.2 expansion options, allowing for further customization and scalability.

The DSBOARD-NX2 provides a complete development and deployment platform for the Xavier NX, Jetson Nano, and TX2 NX SoMs, offering excellent performance and flexibility for your edge computing applications. Whether you are building intelligent robots, drones, or other edge devices, the DSBOARD-NX2 offers a powerful and flexible foundation for your project.

Autonomous Vehicles
Security and Surveillance
Healthcare
Industrial Automation
Robotics
Agriculture

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOARD-NX2

NVIDIA JETSON NANO & TX2NX
& XAVIER NX CARRIER BOARD

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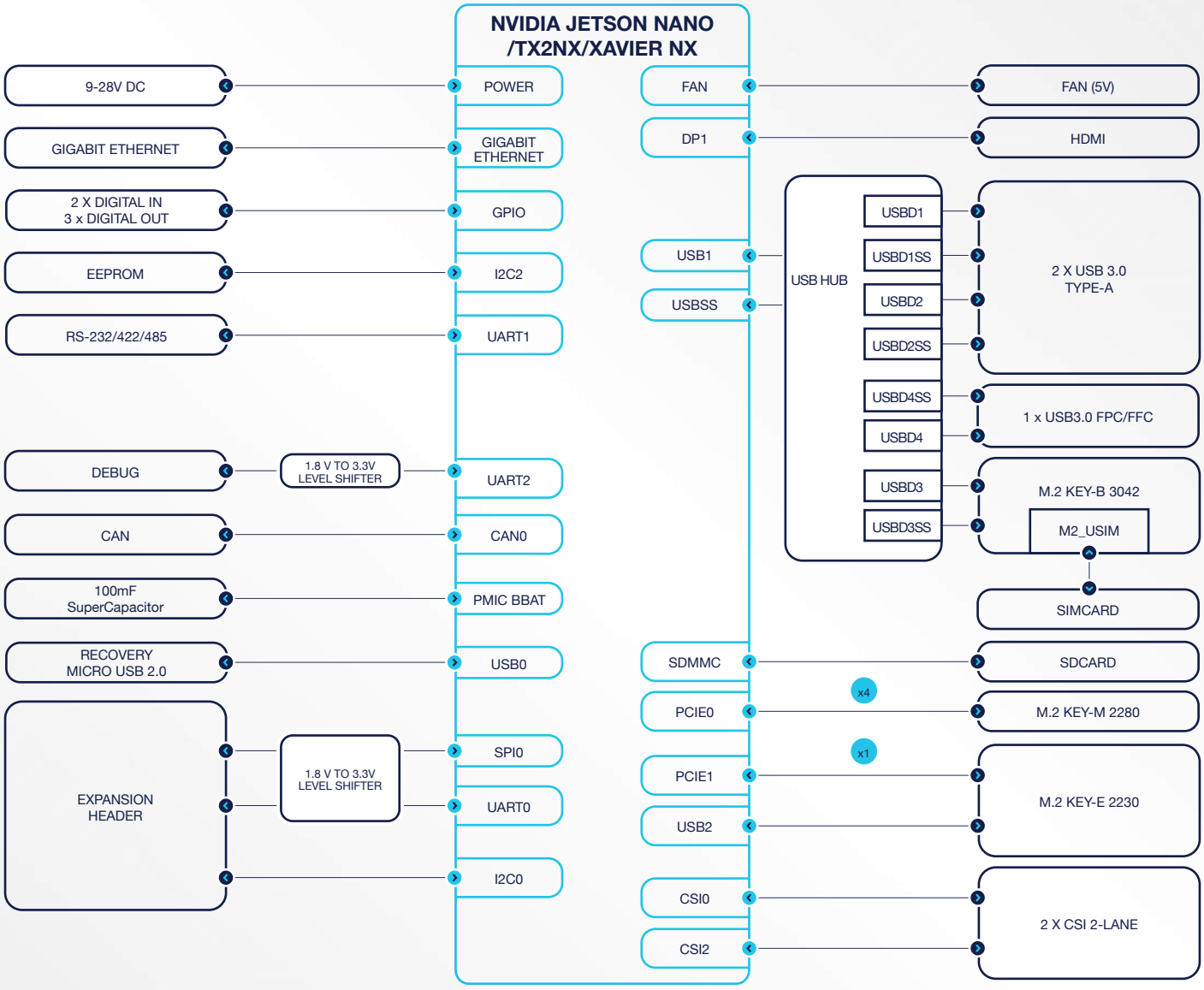

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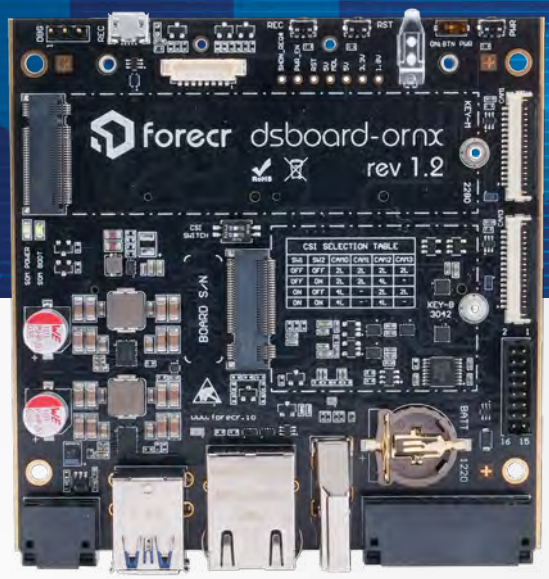
DSBOARD-ORNX

JETSON ORIN NX & ORIN NANO CARRIER BOARD



HIGHLIGHTS

- Supports NVIDIA Jetson Orin Nano and Orin NX SOMs
- AI ready for edge analytics with 100 TOPS performance
- 4K Video Display (HDMI 2.0)
- Industrial IO options (RS232, RS422, CAN Bus, Digital I/Os)
- Rich extension options (M.2 Key-E, M.2 Key-B, M.2 Key-M)
- High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- Robust power design
- Wide voltage input range
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB NVIDIA Jetson Orin NX 8GB / 16GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5 8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0 (max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232 & 1x RS422 1x microUSB 2.0 (Recovery) 2x Digital Input 2x Digital Output 2X CSI 4-LANE or 4x CSI 2-LANE
Wireless Communication	WIFI/LTE/5G/Bluetooth Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x M.2 Key-B, 1x SIM, 1x 5V FAN, 1x SPI, 1x I2S, 1x I2C
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	100 mm x 100 mm, 85gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

DSBOARD-ORNX is an industrial carrier board designed for harsh environments and applications that demand high processing power and reliability. It is based on the NVIDIA Orin NX system-on-module (SOM), which features multiple NVIDIA Ampere GPU cores and ARM64 CPU cores. The compact design of the carrier board makes it a versatile and flexible solution for a wide range of industrial applications such as autonomous systems, robotics, and intelligent video analytics.

DSBOARD-ORNX comes with various connectivity options, including Gigabit Ethernet, USB 3.1, HDMI, and CAN, enabling seamless integration with a wide range of devices and systems. The NVIDIA Orin NX SOM provides the processing power and capabilities needed to support intensive data processing and analysis.

In addition to its compact size, DSBOARD-ORNX also features multiple expansion slots for adding peripherals and customizing the system to meet specific requirements. Its wide operating temperature range ensures reliable operation in challenging environments.

Overall, DSBOARD-ORNX is an effective solution for industrial applications that demand high processing power and a reliable platform. Its advanced features and compact design make it an ideal choice for applications where space is limited, and flexibility is key.

Autonomous Vehicles

Security and Surveillance

Healthcare

Industrial Automation

Robotics

Agriculture

RoHS COMPLIANT

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DSBOARD-ORNX

JETSON ORIN NX & ORIN NANO CARRIER BOARD

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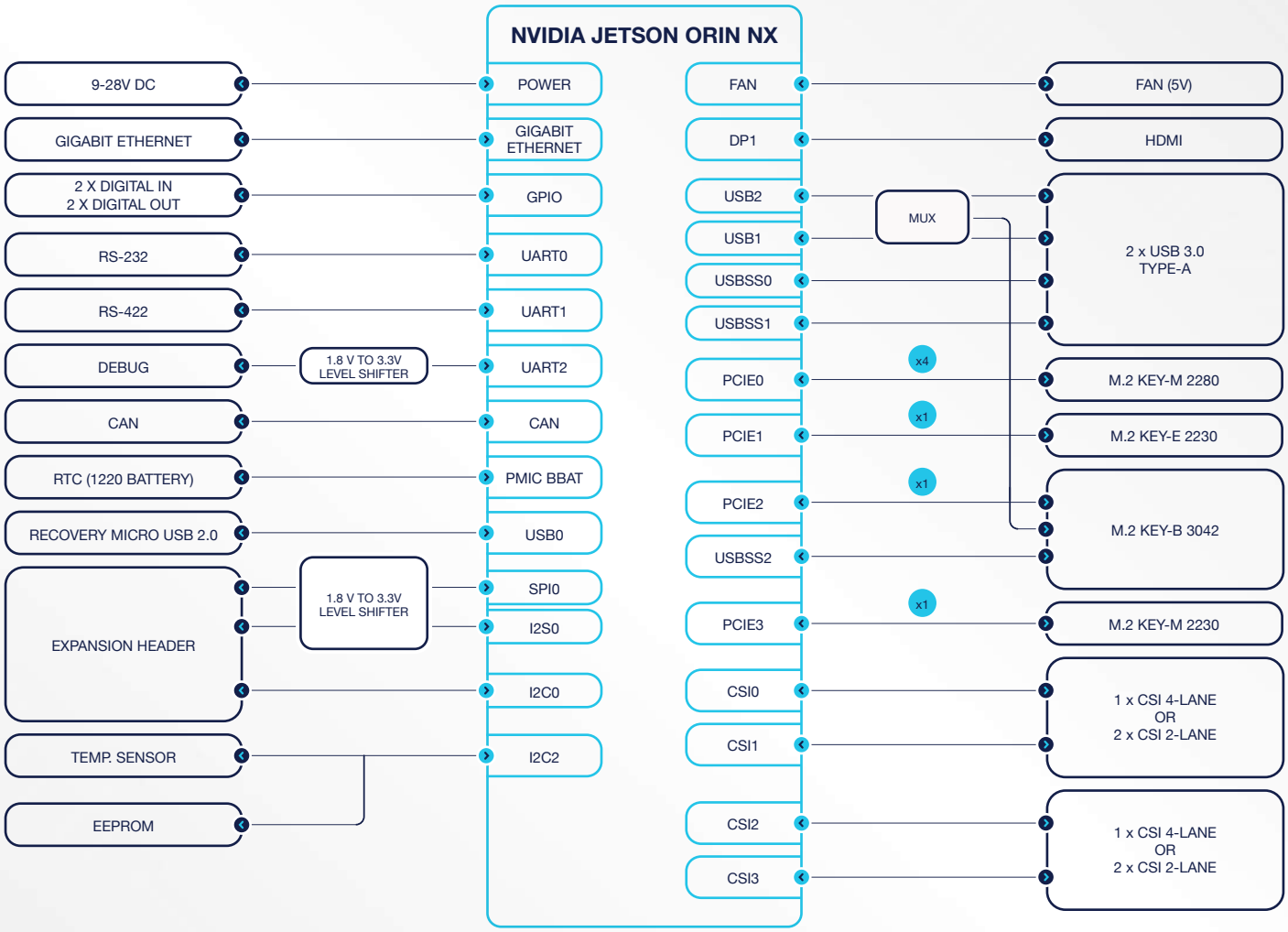

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DSBOARD-ORNX-LAN

JETSON ORIN NX & ORIN NANO CARRIER BOARD
with DUAL LAN

HIGHLIGHTS

- Supports NVIDIA Jetson Orin Nano and Orin NX SOMs
- Dual Gigabit Ethernet Support
- 4K Video Display (HDMI 2.0)
- Industrial IO options (RS232/485, CAN Bus, Digital I/Os)
- Rich extension options (M.2 Key-E, M.2 Key-B, M.2 Key-M)
- High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- Robust power design
- Wide voltage input range
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB NVIDIA Jetson Orin NX 8GB / 16GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5 8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 3x USB 3.1 Type-C 1x CAN Bus 1 x RS232/422/485 2x Digital Input 2x Digital Output 2x CSI 4-LANE or 4x CSI 2-LANE
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x 5V Fan 1x SPI, 1x I2S, 1x I2C, 1x UART
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	100 mm x 100 mm, 88gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

DSBOARD-ORNX-LAN is an industrial carrier board designed for harsh environments and applications that demand high processing power and reliability. It is based on the NVIDIA Orin NX system-on-module (SOM), which features multiple NVIDIA Ampere GPU cores and Arm64 CPU cores. The compact design of the carrier board makes it a versatile and flexible solution for a wide range of industrial applications such as autonomous systems, robotics, and intelligent video analytics.

DSBOARD-ORNX-LAN comes with various connectivity options, including dual Gigabit Ethernet, USB 3.1, HDMI, and CAN, enabling seamless integration with a wide range of devices and systems. The dual Gigabit Ethernet support allows for increased data transfer speeds and redundancy in network connections. The NVIDIA Orin NX SOM provides the processing power and capabilities needed to support intensive data processing and analysis.

In addition to its compact size, DSBOARD-ORNX-LAN also features multiple expansion slots for adding peripherals and customizing the system to meet specific requirements. Its wide operating temperature range ensures reliable operation in challenging environments.

Overall, DSBOARD-ORNX-LAN is an effective solution for industrial applications that demand high processing power and a reliable platform. Its advanced features, including dual Gigabit Ethernet support, and compact design make it an ideal choice for applications where space is limited, and flexibility is key.

Transportation
Robotics
Smart Retail
Agriculture
Autonomous Systems
Energy

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOARD-ORNX-LAN

JETSON ORIN NX & ORIN NANO CARRIER BOARD
with DUAL LAN

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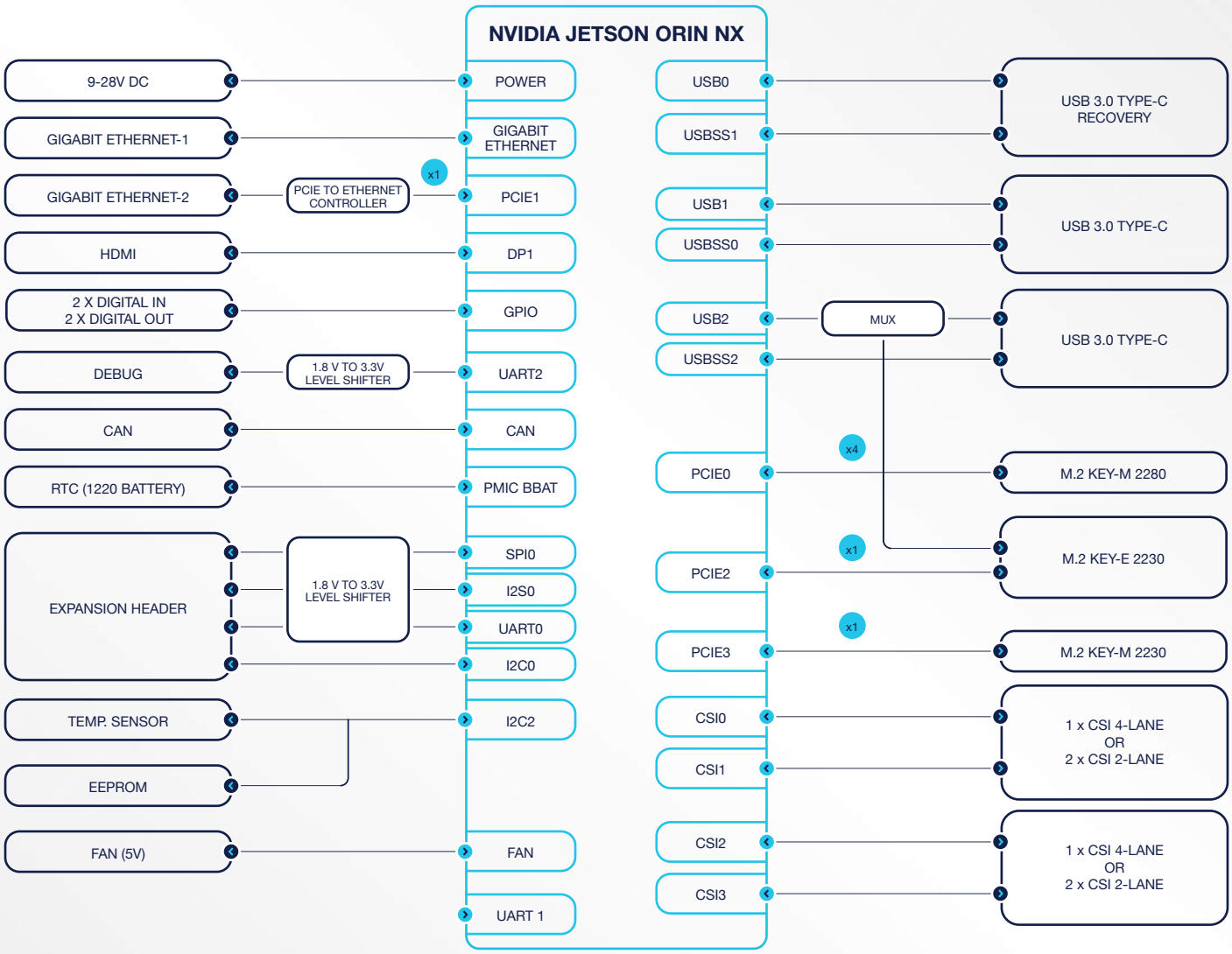

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DSBOARD-XV2

INDUSTRIAL GRADE AGX XAVIER CARRIER BOARD

HIGHLIGHTS

- Supports NVIDIA Jetson AGX Xavier SOM
- AI ready for edge analytics with 32 TOPS AI performance
- 4K Video Display (HDMI 2.0)
- Industrial IO options (RS232/485, CAN Bus, Digital I/Os)
- Rich extension options (M.2 Key E, M.2 Key M)
- High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- Robust design for 7/24 operation
- Wide voltage input range
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Xavier 32GB NVIDIA Jetson AGX Xavier 64GB NVIDIA Jetson AGX Xavier Industrial 32GB
Memory	32 / 64 GB 256-bit LPDDR4x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232/422/485 (software configurable) 2x Type-C (Debug/Recovery) 2x Digital Input, 3x Digital Output 6X CSI 2-LANE
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	18-30 VDC
Extension Sockets	1x M.2 Key-E, 1x MicroSD, 1x 5V Fan 1x PCIE(x8), 1x PCIE(x1), 1x CAN 1x UART, 1x SPI, 1x I2C, 1x DP
Mass Storage	32 / 64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	100 mm x 100 mm, 103gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
JetPack Support	JetPack 4.x / 5.x

DSBOARD-XV2 is the perfect edge computing device for industrial applications that require high processing power and reliability. Powered by the NVIDIA Jetson AGX Xavier module with a Volta GPU and an eight-core ARM64 CPU, it offers up to 32 TOPS of compute performance for deep learning and computer vision tasks. The device also boasts multiple connectivity options, including Gigabit Ethernet, Wi-Fi, Bluetooth, and USB 3.2, as well as M.2 expansion slots and a microSD card slot for storage expansion. Its wide operating temperature and input voltage range make it highly adaptable to various industrial environments, from robotics to transportation, security, and surveillance.

Compact yet rugged, the DSBOARD-XV2 is built to withstand even the toughest industrial conditions, making it an ideal choice for applications that require both high-performance computing and reliable connectivity. So whether you're working in industrial automation, healthcare, or any other industrial field, the DSBOARD-XV2 is the edge computing device you need to take your applications to the next level.

Transportation
Robotics
Agriculture
Manufacturing
Security and Surveillance
Smart City

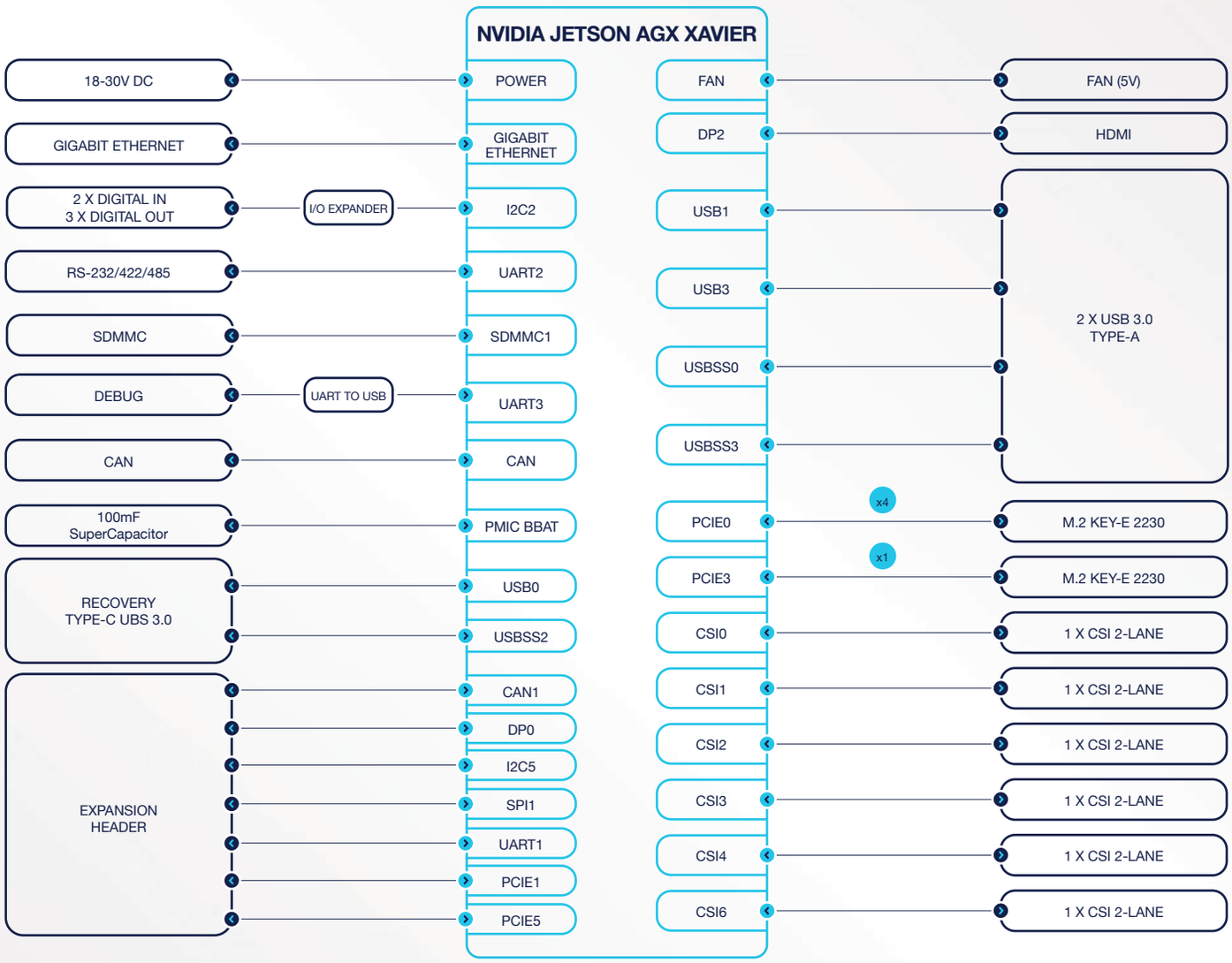
NVIDIA Preferred Partner

RoHS COMPLIANT

DSBOARD-XV2

INDUSTRIAL GRADE AGX XAVIER CARRIER BOARD

BLOCK DIAGRAM



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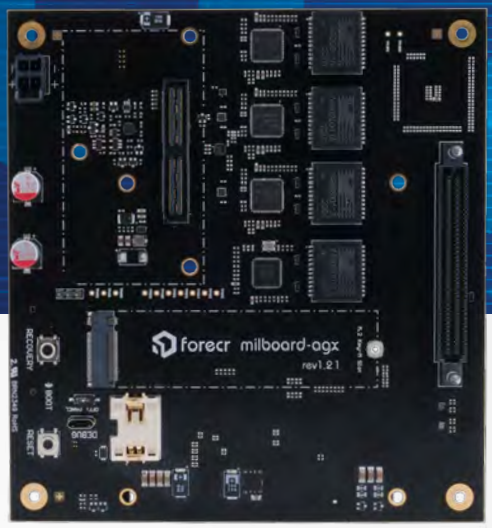
MILBOARD-AGX

MIL-GRADE AGX XAVIER / ORIN CARRIER BOARD



HIGHLIGHTS

- Supports NVIDIA Jetson AGX Xavier/Orin SOM Family)
- Supercomputer level performance for military applications
- 4K Video Display (DP 1.4)
- Rich IO options (8x UART, 2x CAN Bus)
- High Speed Interfaces (4x Gigabit Ethernet, 2x USB 3.2)
- Compatible with military standards
- Wide voltage input range
- Extended temperature range
- Robust design for 7/24 operation

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Xavier 32GB NVIDIA Jetson AGX Xavier 64GB NVIDIA Jetson AGX Xavier Industrial NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB NVIDIA Jetson AGX Orin Industrial
Memory	32 / 64 GB 256-bit LPDDR4x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	4x Gigabit Ethernet 2x USB 3.2 2x USB 2.0 2x CAN Bus 8x UART 1x MicroUSB 2.0 (Debug UART) 1 x I2C 1 x SPI 1x FAN (5V) 1x Temperature Sensor
Wireless Communication	None
Power Supply	12-30 VDC
Extension Sockets	1x Camera Connector (6 CSI camera support)
Mass Storage	32 / 64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot SD Card
Ambient Conditions	-40°C ... +85°C
Form Factor / Dimensions	150 mm x 140 mm, 120gr
Operating Systems	Ubuntu Linux 18.04 / 20.04 / 22.04
JetPack Support	JetPack 4.x / 5.x / 6.x

MILBOARD-AGX is a carrier board designed for harsh military and aerospace environments. It is powered by the NVIDIA Jetson AGX Xavier module, which has an NVIDIA Volta GPU and an eight-core ARM64 CPU, providing high processing power for complex applications. The carrier board features a rugged design that ensures reliable performance even in the most extreme conditions. It has a wide operating temperature range and a robust power management system that can handle input voltages from 18V to 32V.

In addition to its powerful processing capabilities, MILBOARD-AGX also offers a variety of connectivity options, including multiple Gigabit Ethernet ports and UARTs. It also features several USB 3.0 ports, HDMI output, and two CAN bus interfaces. The carrier board also includes an M.2 Key-M slot for additional storage options.

MILBOARD-AGX runs on the NVIDIA JetPack SDK, providing a complete software development environment for building and deploying AI applications. It is a versatile solution for a wide range of military and aerospace applications.

Defense | Aerospace | Robotics

Industrial Automation | Healthcare | Transportation

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MILBOARD-AGX

MIL-GRADE AGX XAVIER / ORIN CARRIER BOARD

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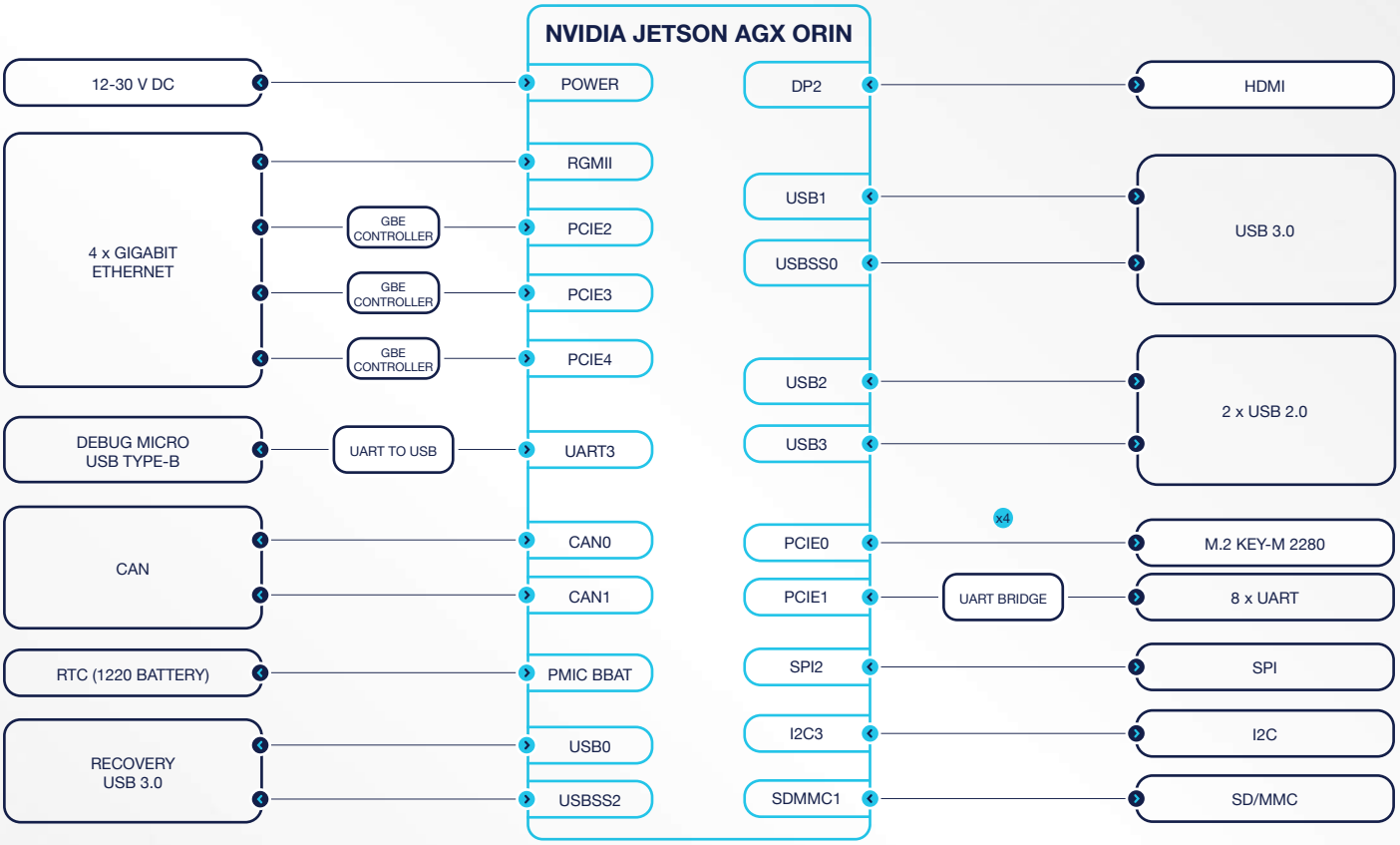

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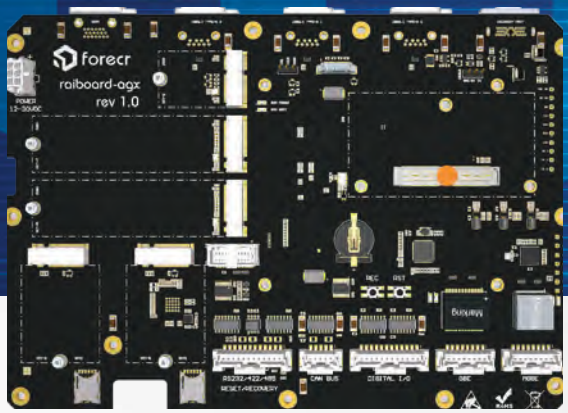
RAIBOARD-AGX

RAILWAY GRADE AGX ORIN CARRIER BOARD



Module Compatibility

- Jetson AGX Orin Industrial
- Jetson AGX Orin 32GB/64GB

Interfaces

- 1x Type-C USB3.0 (Recovery port / IP67 Connector)
- 3x Type-A USB3.0 (IP67 Connectors)
- HDMI (IP67 Connector)
- CSI Connector (120-pin Samtec QSH)
- 2x CANBUS (Molex Dura-Clik Series Connector)
- 2x RS232/RS422/RS485 (Software selectable) (Molex Dura-Clik Series Connector)
- 1x RGMII Gigabit Ethernet (Molex Dura-Clik Series Connector)
- 1x 10G Ethernet (1G compatible) (Molex Dura-Clik Series Connector)
- 4x digital INPUT and 4x digital OUTPUT (Molex Dura-Clik Series Connector)
- 1x Expansion Connector (UART, SPI, I2C, I2S) (Molex Micro-Lock Plus Series Connector)

M.2 Expansion Sockets

- 2x Key-M 2280
- 2x Key-B 3042
- 1x Key-E 2230

Others

- 12V – 30VDC input
- 167mmx200mm 288 gr
- Accelerometer
- FAN
- Temperature sensor
- EEPROM
- RTC
- Debug header

RAIBOARD-AGX is a robust and versatile carrier board designed to seamlessly integrate with the Jetson AGX Orin platform, including the Industrial and 32GB/64GB variants. Engineered for durability and performance in demanding environments, it features IP67-rated connectors for USB 3.0, HDMI, and Gigabit Ethernet, along with multiple expansion options such as M.2 sockets, CANBUS, RS232/RS422/RS485, and more. Ideal for industrial applications, this board ensures reliable communication, expandability, and compatibility, all in a compact 160mm x 230mm form factor with support for a wide power input range of 12V-30V DC.

Additionally, it boasts a high-speed 10G Ethernet port, dual full-size NVMe slots for enhanced storage, dual LTE/5G slots for seamless connectivity, WIFI integration, and expansion options for GMSL or FPDLink cameras, making it a powerful solution for applications requiring high data throughput and advanced communication capabilities.

Railway

Security and Surveillance

Agriculture

Industrial Automation

Energy

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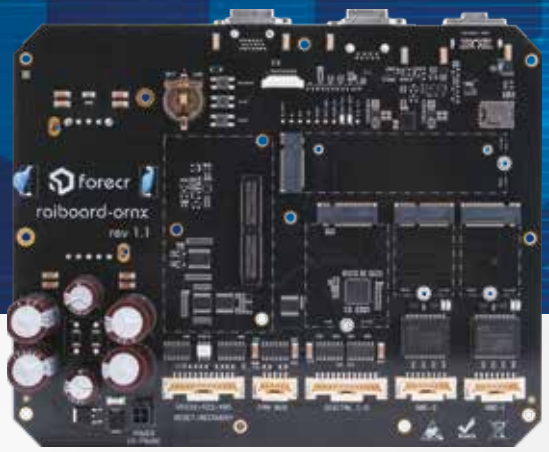
RAIBOARD-ORNX

RAILWAY GRADE ORIN NX & ORIN NANO CARRIER BOARD



HIGHLIGHTS

- EN50155 railway-grade carrier board for reliability
- AI ready for railway application with 100 TOPS performance
- High-Speed Interfaces
- Up to 4-ch GMSL2 support
- Wireless and 5G connectivity
- M.2 SSD support for enhanced storage
- Robust & secure gateway for railway infrastructure
- Low power operation (<60 Watts)
- Ideal for critical railway applications

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB NVIDIA Jetson Orin NX 8GB / 16GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5 8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 1x USB 3.1 Type-A 1x USB 3.1 Type-C 2x CAN Bus (Isolated) 2x RS232/RS422/RS485 (Isolated) 4x Digital In (Isolated) 4x Digital Out (Isolated)
Wireless Communication	WiFi/Bluetooth/LTE Connectivity by extension sockets
Power Supply	10-75VDC
Extension Sockets	1x M.2 Key-E, 1x M.2 Key-B, 1x SIM
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	275 mm x 200 mm x 75 mm, 2750gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
Standards (with Raibox chassis)	EN50155, EN45545-2 HL3, EN61373, EN60068, IP67
JetPack Support	JetPack 5.x / 6.x

The RAIBOARD-ORNX is a cutting-edge AI computing solution designed for railway applications, powered by NVIDIA Jetson Orin NX (8GB/16GB). It delivers up to 100 TOPS of AI performance, ideal for real-time data processing and machine learning tasks.

Key features include dual Gigabit Ethernet ports, USB 3.2, and support for WiFi, Bluetooth, LTE, and 5G connectivity. Its dual M.2 SSD slots ensure high-speed, large-capacity data storage, making it suitable for applications like video analytics and monitoring. Built to withstand extreme temperatures (-25°C to 85°C), shock, and vibration, it complies with EN50155 and other railway standards. With low power consumption and robust design, the RAIBOARD-ORNX excels as a secure gateway and onboard AI engine for railway infrastructure and monitoring systems. This platform redefines reliability, efficiency, and AI-driven innovation in railway technology.

Railway

Transportation

Agriculture

Marine

RoHS COMPLIANT

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RAIBOARD-ORNX

RAILWAY GRADE ORIN NX & ORIN NANO CARRIER BOARD

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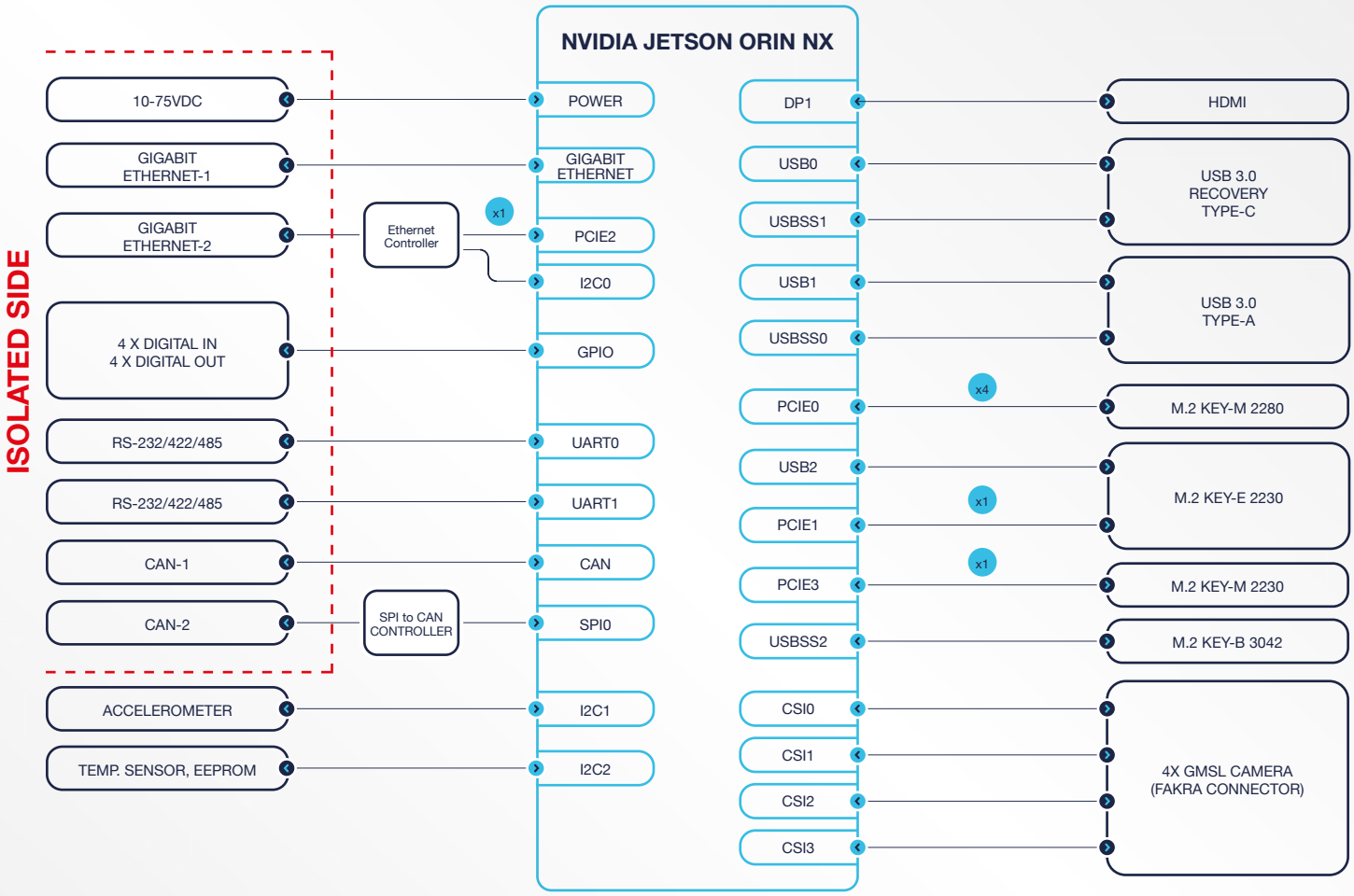

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AI-Ready Fanless Industrial Box PCs

DSBOX-AGXMAX

AGX ORIN INDUSTRIAL BOX PC with 10G ETHERNET

HIGHLIGHTS

- Maximizes productivity and connectivity
- Powered by high-performance AGX Orin SoM
- Offers top-of-the-line 10G connectivity
- Dual Gigabit Ethernet, USB 3.2, HDMI, CAN
- Reliable performance for industrial apps
- Exceptional 275 TOPS of AI performance
- Unparalleled convenience and flexibility
- Robust construction, long-lasting reliability
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB NVIDIA Jetson AGX Orin Industrial
Memory	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 1x 10G (SFP+Based) 2x USB 3.1 Type-A 1x CAN Bus 1x RS232/422/485 (software configurable) 2x USB-C (Debug/Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	WiFi/Bluetooth/LTE/5G Connectivity by extension sockets
Power Supply	12-30 VDC
Extension Sockets	1x M.2 Key-B, 1x M.2 Key-E, 1x SIM
Mass Storage	64 GB eMMC 5.1 Flash 2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	225 mm x 135 mm x 83 mm, 3000gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

Introducing the DSBOX-AGXMAX is an industrial fanless box PC engineered to merge the potent capabilities of the AGX Orin SoM which can deliver up to 275 TOPS of AI performance, this board offers top-of-the-line 10G connectivity, as well as Dual Gigabit Ethernet, USB 3.2, HDMI, CAN, Serial Ports, and MIPI CSI-2 Camera support.

The AGX Orin SoM processor delivers exceptional performance for industrial applications that require high-speed data transfer, real-time communication, and reliable performance. Whether you're working on machine vision, robotics, automation, or any other industrial project, the DSBOX-AGXMAX will deliver the power and versatility you need to get the job done.

With its compact form factor and flexible connectivity options, seamless integration into existing systems is effortless. Enjoy dependable performance and consistent results, thanks to its rugged design, cutting-edge performance, and versatile connectivity features. For any industrial application, the DSBOX-AGXMAX stands as the ultimate solution.

Transportation

Robotics

Smart Retail

Energy

Agriculture

Autonomous Systems

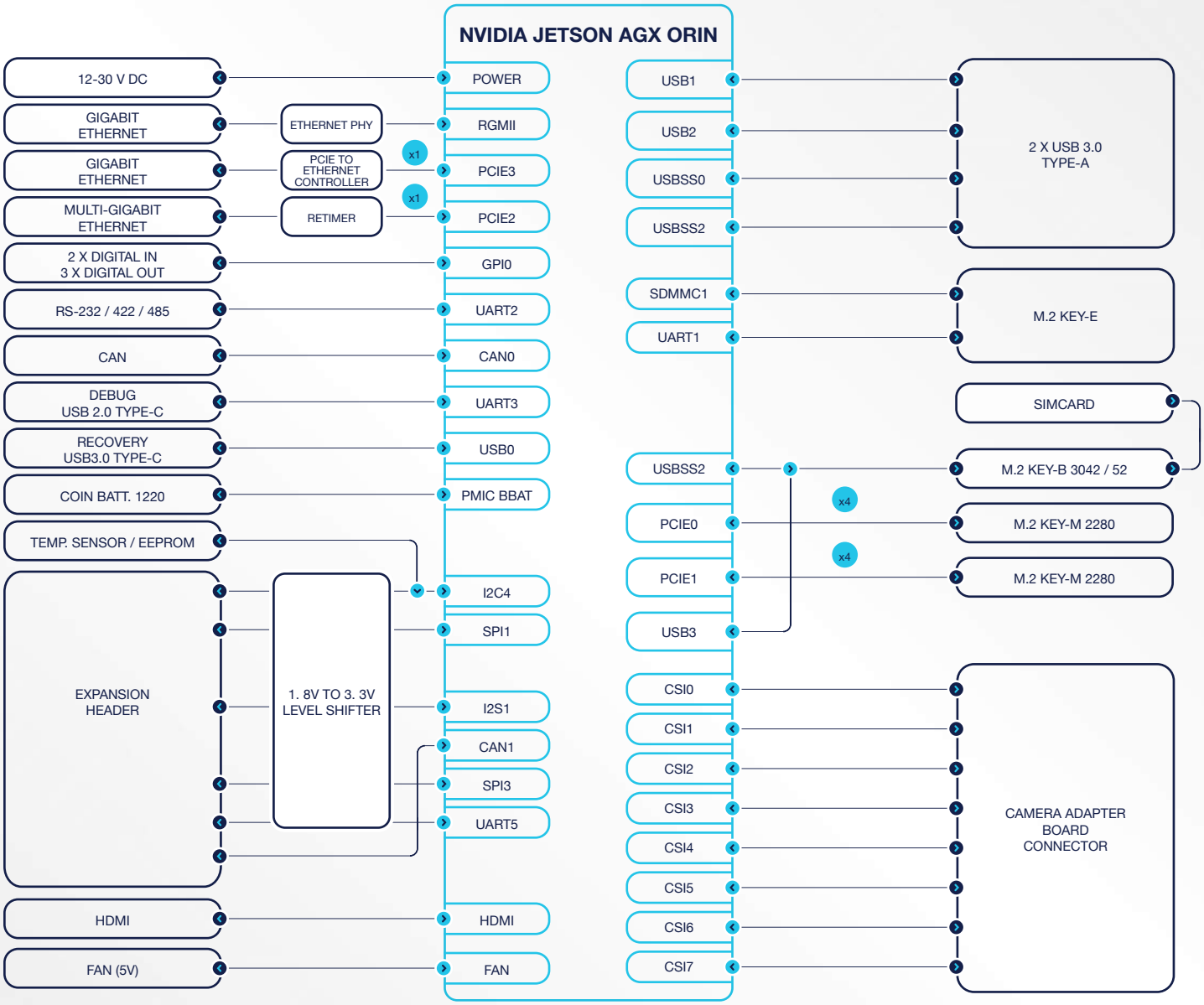
RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOX-AGXMAX

AGX ORIN INDUSTRIAL BOX PC with 10G ETHERNET

BLOCK DIAGRAM



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DSBOX-AGX

AGX ORIN INDUSTRIAL BOX PC

HIGHLIGHTS

- NVIDIA Jetson AGX Orin with up to 275 TOPS of AI performance
- CAN, RS-232 and Gigabit Ethernet interfaces
- HDMI 2.0b with up to 8Kp60 resolution
- Rugged design for harsh environments
- Ideal for edge computing & AI inference
- Compact size for easy integration
- Versatile connectivity options
- Powerful performance & reliable operation
- Collect & analyze sensor data in real-time

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB
Memory	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232/422/485 (software configurable) 2x USB-C (Debug/Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	WiFi/LTE/5G Connectivity by extension sockets
Power Supply	12-30 VDC
Extension Sockets	1x M.2 Key-B, 1x SIM, 1x MicroSD
Mass Storage	64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	165 mm x 110 mm x 95 mm, 1470 gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

Introducing the DSBOX-AGX, an industrial fanless box PC that combines the power of the AGX Orin SoM with a range of essential features for any industrial application. With Gigabit Ethernet, USB 3.2, HDMI, CAN, Serial Ports and Digital I/Os, this compact and robust PC offers unparalleled connectivity and functionality for a variety of industrial uses.

Featuring a rugged design and fanless construction, the DSBOX-AGX is built to withstand harsh environments and demanding workloads. With its powerful NVIDIA AGX Orin SoM, it delivers exceptional 275 TOPS performance and reliability, making it ideal for edge computing, AI inference, and other advanced applications.

Its compact size and versatile connectivity options make it easy to integrate into existing systems, while its powerful performance and reliable operation ensure that you get the results you need. With its rugged design, advanced performance, and versatile connectivity options, it is the ideal solution for any industrial application.

Transportation

Robotics

Autonomous Systems

Industrial & Manufacuring

Mining

Energy

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOX-AGX

AGX ORIN INDUSTRIAL BOX PC

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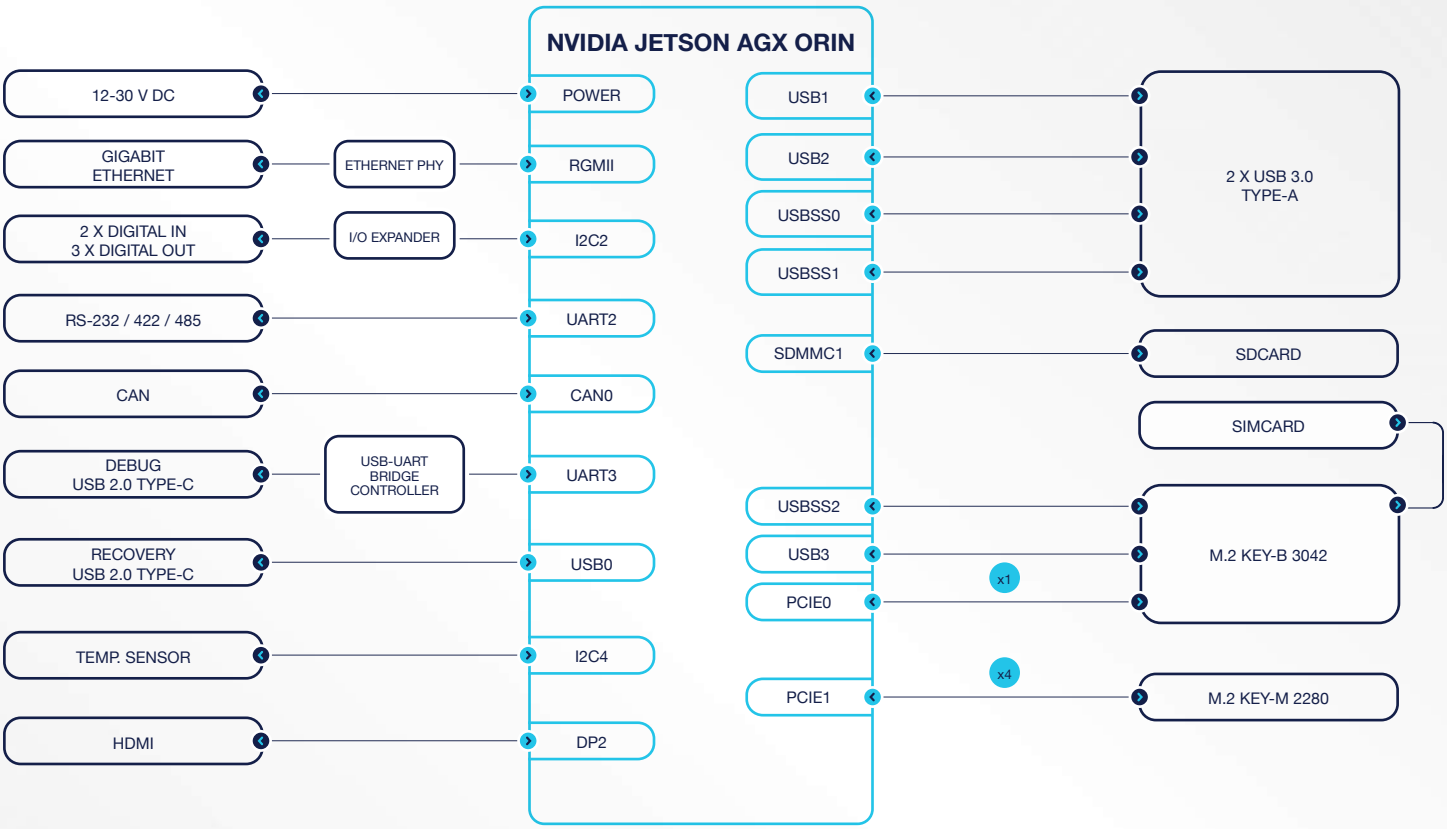

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DSBOX-N2

NANO INDUSTRIAL BOX PC

HIGHLIGHTS

- NVIDIA Jetson Nano Processor
- AI Ready for IIOT and Industry 4.0 applications
- Cost-effective Edge Analytics Deployment
- Process up to 8 Full-HD video streams with Deepstream SDK
- 4 GB 64-bit LPDDR4 RAM
- 4K Video Decode & Display
- Industrial IO options (RS232/485, Digital I/O)
- High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- Low power operation (< 10 Watts)

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Nano
Memory	4 GB 128-bit LPDDR4
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x RS232/422/485 (software configurable) 1x microUSB 2.0 (Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	Bluetooth, LTE/5G Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-B, 1x MicroSD, 1x SIM
Mass Storage	16 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	110 mm x 130 mm x 67 mm, 760 gr
Operating Systems	Ubuntu Linux 18.04
JetPack Support	JetPack 4.x

DSBOX-N2 is an industrial PC that offers powerful edge computing capabilities in a compact and rugged form factor for industrial applications that require high processing power. It is based on the NVIDIA Jetson Nano System-on-Module and comes with a rugged aluminum chassis that provides excellent heat dissipation and protection against dust, shock, and vibration. With a wide operating temperature range (-25°C to 60°C) and a wide input voltage range (9V to 28V), the DSBOX-N2 ensures reliable operation in a variety of industrial environments.

The PC features various connectivity options, including Gigabit Ethernet, USB 3.0, HDMI, and RS-232, as well as a M.2 NVMe slot for high-speed storage and a M.2 Key-B slot for expansion modules. The DSBOX-N2 runs on the NVIDIA JetPack SDK, providing a complete software development environment for building and deploying AI applications on the device. Overall, the DSBOX-N2 is a powerful and reliable edge computing device that is well-suited for industrial applications that require high processing power in a compact and rugged form factor.

Transportation

Security and Surveillance

Healthcare

Robotics

Industrial Automation

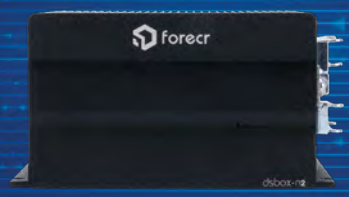
Smart City

RoHS COMPLIANT | CE

NVIDIA Preferred Partner

DSBOX-N2

NANO INDUSTRIAL BOX PC



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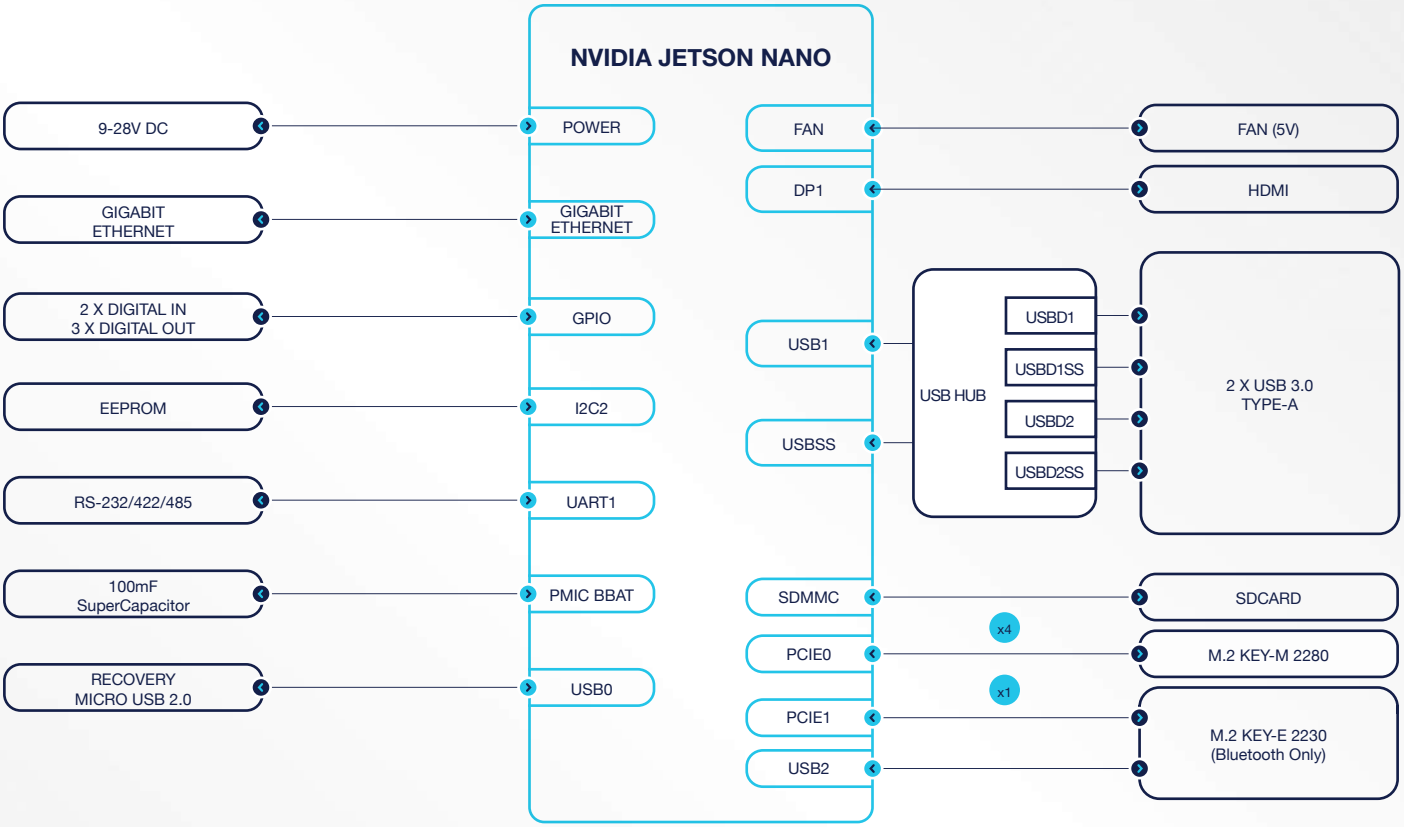

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DSBOX-NX2

XAVIER NX INDUSTRIAL BOX PC

HIGHLIGHTS

- NVIDIA Jetson Xavier NX Processor
- AI Ready for deep neural networks (21 TOPS)
- Process 32 Full-HD video streams with Deepstream SDK
- 8/16 GB 128-bit LPDDR4x RAM
- 4K Video Decode & Display
- Industrial IO options (RS232/485, CAN, Digital I/O)
- High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- Wide voltage input range
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Xavier NX 8GB / 16GB
Memory	8 GB 128-bit LPDDR4x / 16 GB 128-bit LPDDR4x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus (Only in Xavier NX and TX2NX SoM) 1x RS232/422/485 (software configurable) 1x microUSB 2.0 (Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	WiFi/Bluetooth/LTE/5G Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x M.2 Key-B, 1x MicroSD, 1x SIM
Mass Storage	16 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	110 mm x 130 mm x 67 mm, 760 gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
JetPack Support	JetPack 4.x / 5.x

DSBOX-NX2 is an industrial PC that harnesses the power of NVIDIA Jetson Xavier NX, offering a high-performance computing platform tailored for industrial use cases. Its fanless and rugged design make it an ideal choice for deployment in challenging industrial environments.The DSBOX-NX2's NVIDIA Jetson Xavier NX AI processor delivers up to 21 TOPS of AI performance, empowering it to tackle sophisticated AI applications.

Moreover, it comes with a variety of I/O ports such as Gigabit Ethernet, HDMI, USB 3.1, CAN and serial ports, enabling easy integration with other industrial devices. In addition, the DSBOX-NX2 features hardware acceleration for video encoding and decoding, support for multiple camera inputs, and compatibility with popular AI frameworks, including TensorFlow, PyTorch, and Caffe. These capabilities allow for the development of custom AI solutions for various industrial use cases, including predictive maintenance, quality control, and object recognition.

Transportation

Security and Surveillance

Healthcare

Robotics

Industrial Automation

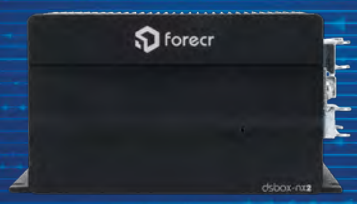
Sports

RoHS COMPLIANT | CE

NVIDIA Preferred Partner

DSBOX-NX2

XAVIER NX INDUSTRIAL BOX PC



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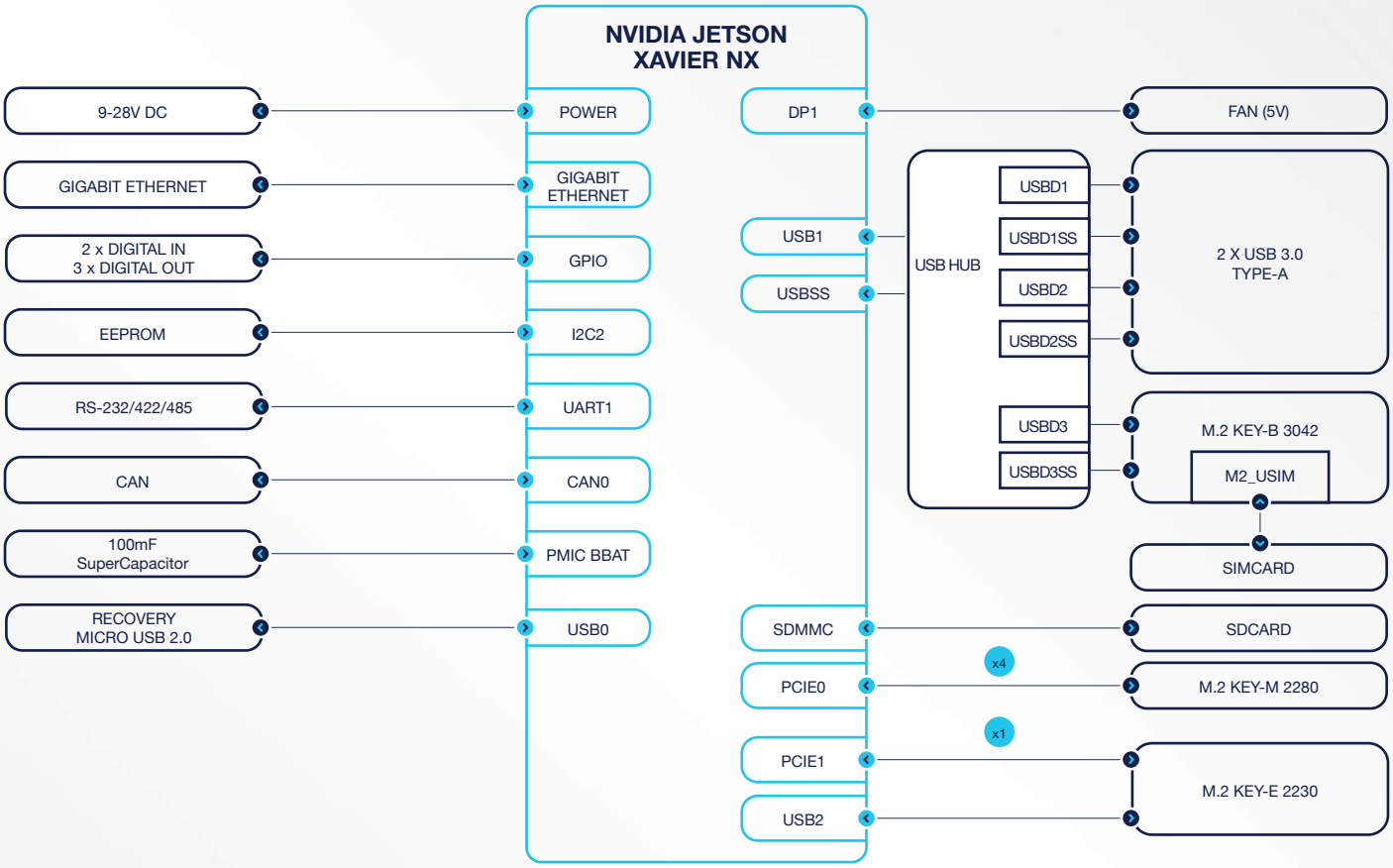

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DSBOX-ORNX

ORIN NX INDUSTRIAL BOX PC

HIGHLIGHTS

- High-performance fanless PC for industrial applications
- Exceptional computing power with NVIDIA Jetson Orin NX SOM
- Advanced AI and machine learning with 100 TOPS of performance
- Multiple connectivity options
- Reliable operation in harsh environments
- Rugged and durable construction
- Easy integration into existing industrial systems
- Ideal for advanced robotics and automation
- Compact design for space-saving installation

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin NX 8GB / 16GB
Memory	8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232 & 1x RS422 1x microUSB 2.0 (Recovery) 2x Digital Input 2x Digital Output
Wireless Communication	WIFI/LTE/5G/Bluetooth Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x M.2 Key-B, 1x SIM
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	110 mm x 130 mm x 67 mm, 760 gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

DSBOX-ORNX is a high-performance industrial fanless PC that delivers exceptional computing power for demanding industrial applications. Built with the latest NVIDIA Jetson Orin NX System on Module (SOM), it offers advanced AI and machine learning capabilities with 100 TOPS of computing performance.

With a range of connectivity options and advanced thermal management, the DSBOX-ORNX is designed to operate reliably in a range of harsh industrial environments. Its rugged and durable construction ensures long-lasting performance, while its compact design allows for easy integration into existing industrial systems.

Whether you need a powerful computing solution for advanced robotics, automation, or other industrial applications, the DSBOX-ORNX is the ideal choice. Upgrade your industrial computing power with the DSBOX-ORNX today.

- Transport & Logistics
- Robotics
- Smart Retail
- Industrial & Manufacuring
- Smart City Applications
- Energy
- Agriculture
- Autonomous Systems

RoHS COMPLIANT

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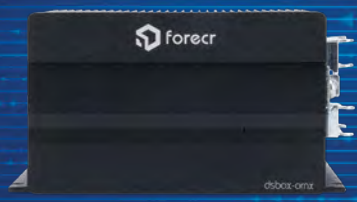
DSBOX-ORNX

ORIN NX INDUSTRIAL BOX PC



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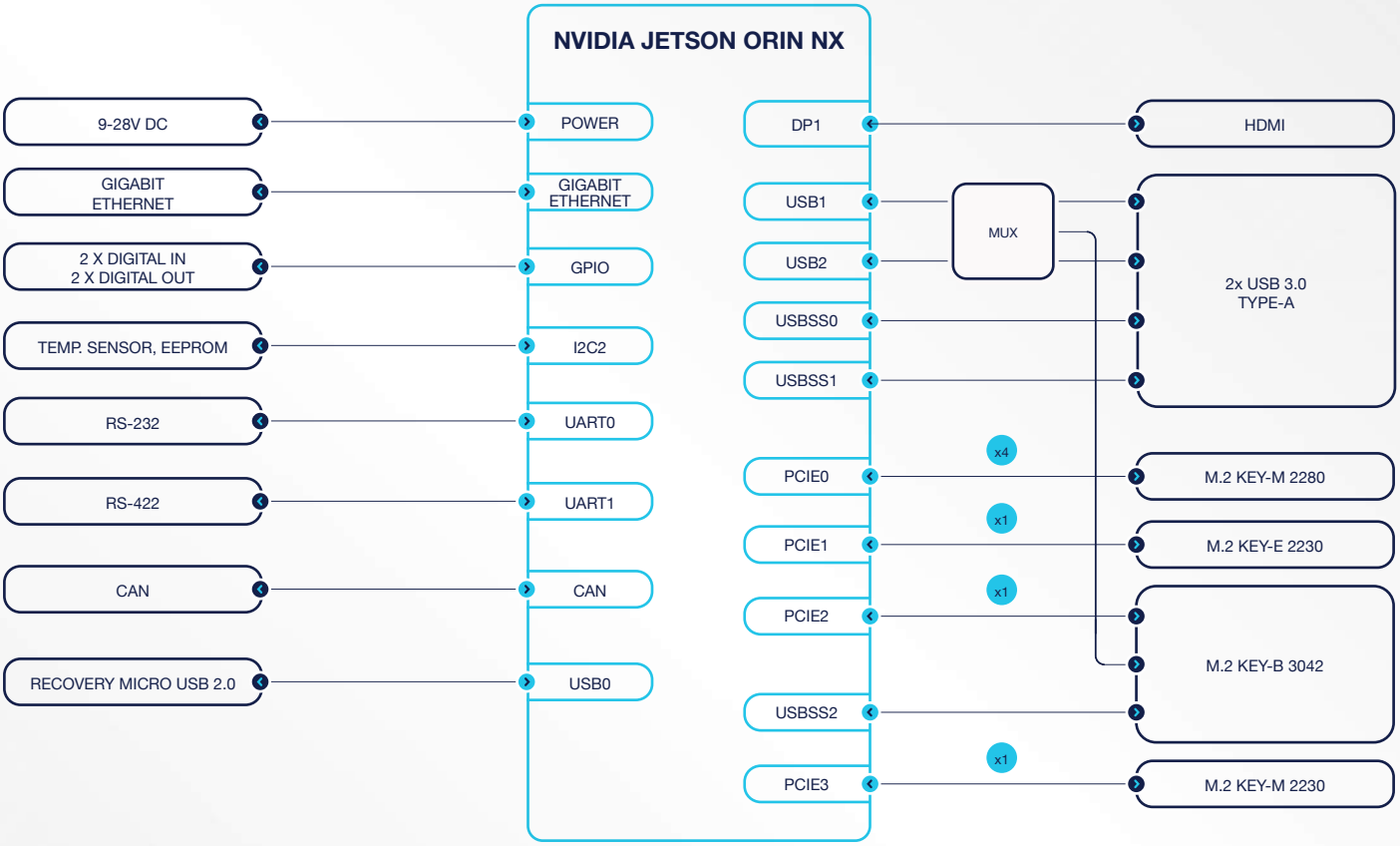

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DSBOX-ORNX-LAN

ORIN NX INDUSTRIAL BOX PC with DUAL LAN

HIGHLIGHTS

- Powerful and reliable industrial computer
- Dual LAN connectivity
- Advanced AI and machine learning with 100 TOPS of performance
- Robust power design
- Multiple connectivity options
- Ideal for autonomous systems, robotics, and video analytics
- Rugged, compact design for industrial environments
- Excellent heat dissipation and shock protection
- Wide operating temperature and voltage range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin NX 8GB / 16GB
Memory	8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 3x USB 3.1 Type-C 1x CAN Bus 1x RS232 & 1x RS422 2x Digital Input 2x Digital Output
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	110 mm x 130 mm x 67 mm, 765 gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

DSBOX-ORNX-LAN is a powerful and reliable industrial computing device with dual LAN connectivity, suitable for industrial applications that require high processing power and ruggedness, such as autonomous driving, robotics, and intelligent video analytics.. It is based on the NVIDIA DRIVE AGX Orin system-on-a-chip, featuring multiple NVIDIA Ampere GPU cores and Arm64 CPU cores, providing the processing power required for complex industrial applications such as autonomous driving, robotics, and intelligent video analytics.

DSBOX-ORNX-LAN has a rugged and compact design optimized for industrial environments. It is built with an aluminum chassis that provides excellent heat dissipation and protection against dust, shock, and vibration. The device features a wide operating temperature range and a wide input voltage range to ensure reliable operation in harsh industrial environments.

Transportation

Robotics

Smart Retail

Industrial & Manufacuring

Smart City Applications

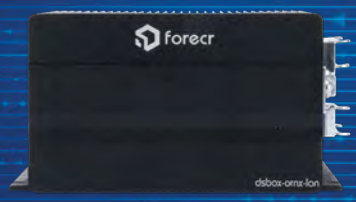
Autonomous Systems

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOX-ORNX-LAN

ORIN NX INDUSTRIAL BOX PC with DUAL LAN



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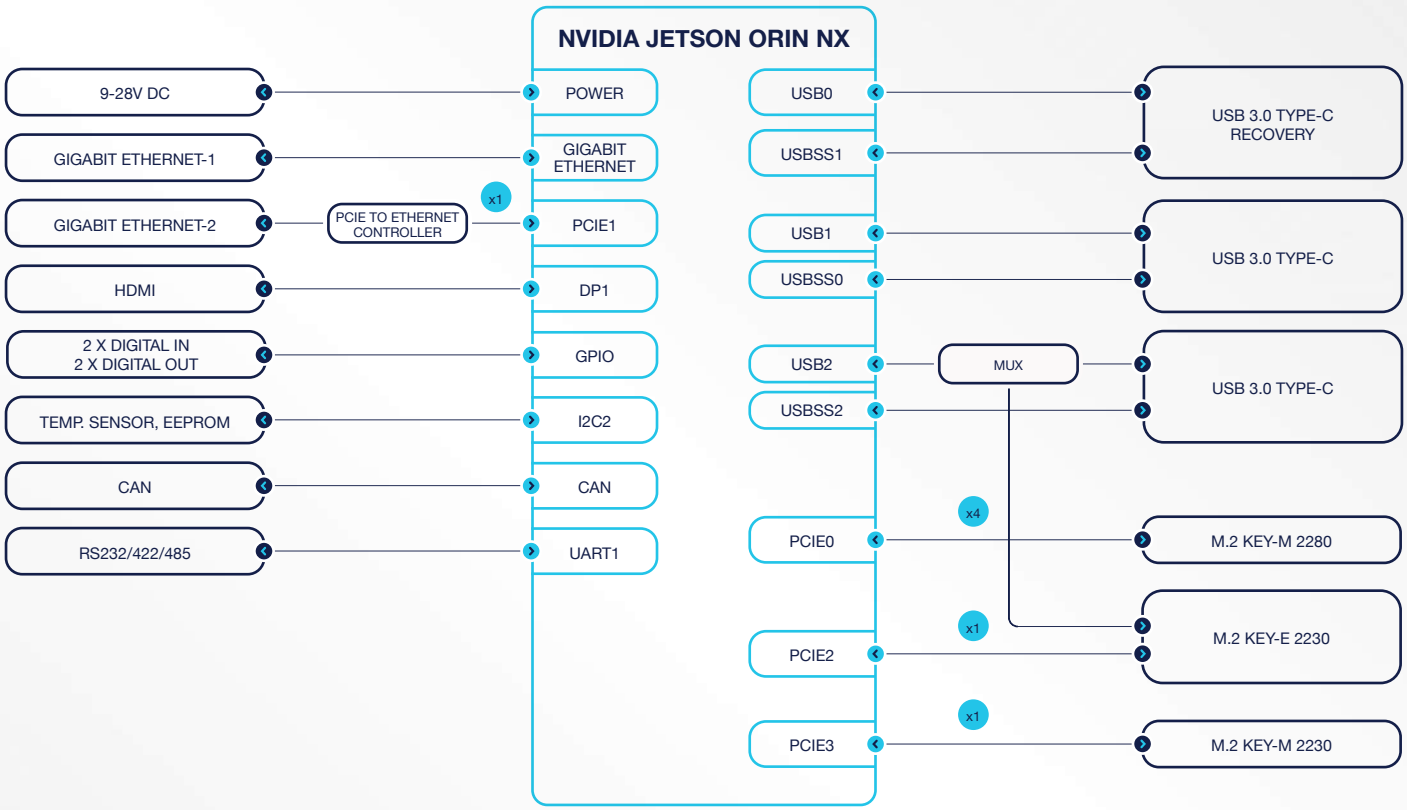

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DSBOX-ORN

ORIN NANO INDUSTRIAL BOX PC

HIGHLIGHTS

- High-performance fanless PC for industrial applications
- Exceptional computing power with NVIDIA Jetson Orin Nano SOM
- Advanced AI and machine learning with 40 TOPS of performance
- Multiple connectivity options
- Reliable operation in harsh environments
- Rugged and durable construction
- Easy integration into existing industrial systems
- Ideal for advanced robotics and automation
- Compact design for space-saving installation

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232 & 1x RS422 1x microUSB 2.0 (Recovery) 2x Digital Input 2x Digital Output
Wireless Communication	WIFI/LTE/5G/Bluetooth Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x M.2 Key-B, 1x SIM
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	110 mm x 130 mm x 67 mm, 760 gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

DSBOX-ORN is a high-performance industrial fanless PC that delivers exceptional computing power for demanding industrial applications. Built with the latest NVIDIA Jetson Orin Nano System on Module (SOM), it offers advanced AI and machine learning capabilities with 40 TOPS of computing performance.

With a range of connectivity options and advanced thermal management, the DSBOX-ORN is designed to operate reliably in a range of harsh industrial environments. Its rugged and durable construction ensures long-lasting performance, while its compact design allows for easy integration into existing industrial systems.

Whether you need a powerful computing solution for advanced robotics, automation, or other industrial applications, the DSBOX-ORN is the ideal choice. Upgrade your industrial computing power with the DSBOX-ORN today.

Transport & Logistics

Robotics

Smart Retail

Industrial & Manufacuring

Smart City Applications

Energy

Agriculture

Autonomous Systems

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOX-ORN

ORIN NANO INDUSTRIAL BOX PC

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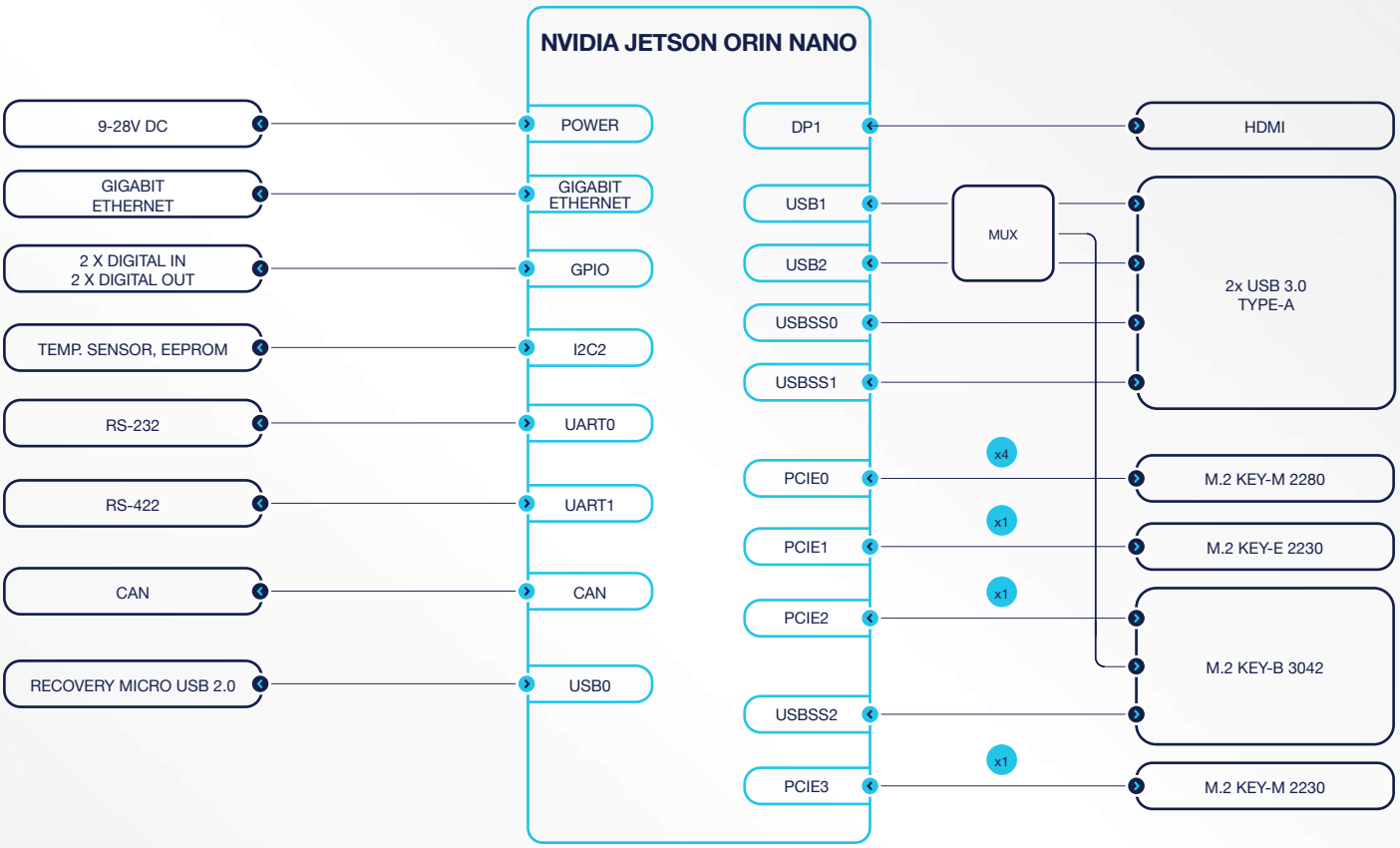

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DSBOX-ORN-LAN

ORIN NANO INDUSTRIAL BOX PC with DUAL LAN

HIGHLIGHTS

- Powerful and reliable industrial computer
- Dual LAN connectivity
- Advanced AI and machine learning with 40 TOPS of performance
- Robust power design
- Multiple connectivity options
- Ideal for autonomous systems, robotics, and video analytics
- Rugged, compact design for industrial environments
- Excellent heat dissipation and shock protection
- Wide operating temperature and voltage range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 3x USB 3.1 Type-C 1x CAN Bus 1x RS232 & 1x RS422 2x Digital Input 2x Digital Output
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	110 mm x 130 mm x 67 mm, 765 gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

DSBOX-ORN-LAN is a powerful and reliable industrial computing device with dual LAN connectivity, suitable for industrial applications that require high processing power and ruggedness, such as autonomous driving, robotics, and intelligent video analytics. Built around the NVIDIA Orin SoC, featuring NVIDIA Ampere™ GPU architecture with 64-bit operating capability, it provides. The processing power required for complex industrial applications such as autonomous driving, robotics, and intelligent video analytics.

DSBOX-ORN-LAN has a rugged and compact design optimized for industrial environments. It is built with an aluminum chassis that provides excellent heat dissipation and protection against dust, shock, and vibration. The device features a wide operating temperature and a wide input voltage range to ensure reliable operation in harsh industrial environments.

Transportation

Robotics

Smart Retail

Industrial & Manufacuring

Smart City Applications

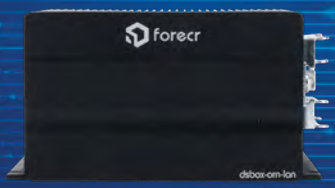
Autonomous Systems

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOX-ORN-LAN

ORIN NANO INDUSTRIAL BOX PC with DUAL LAN



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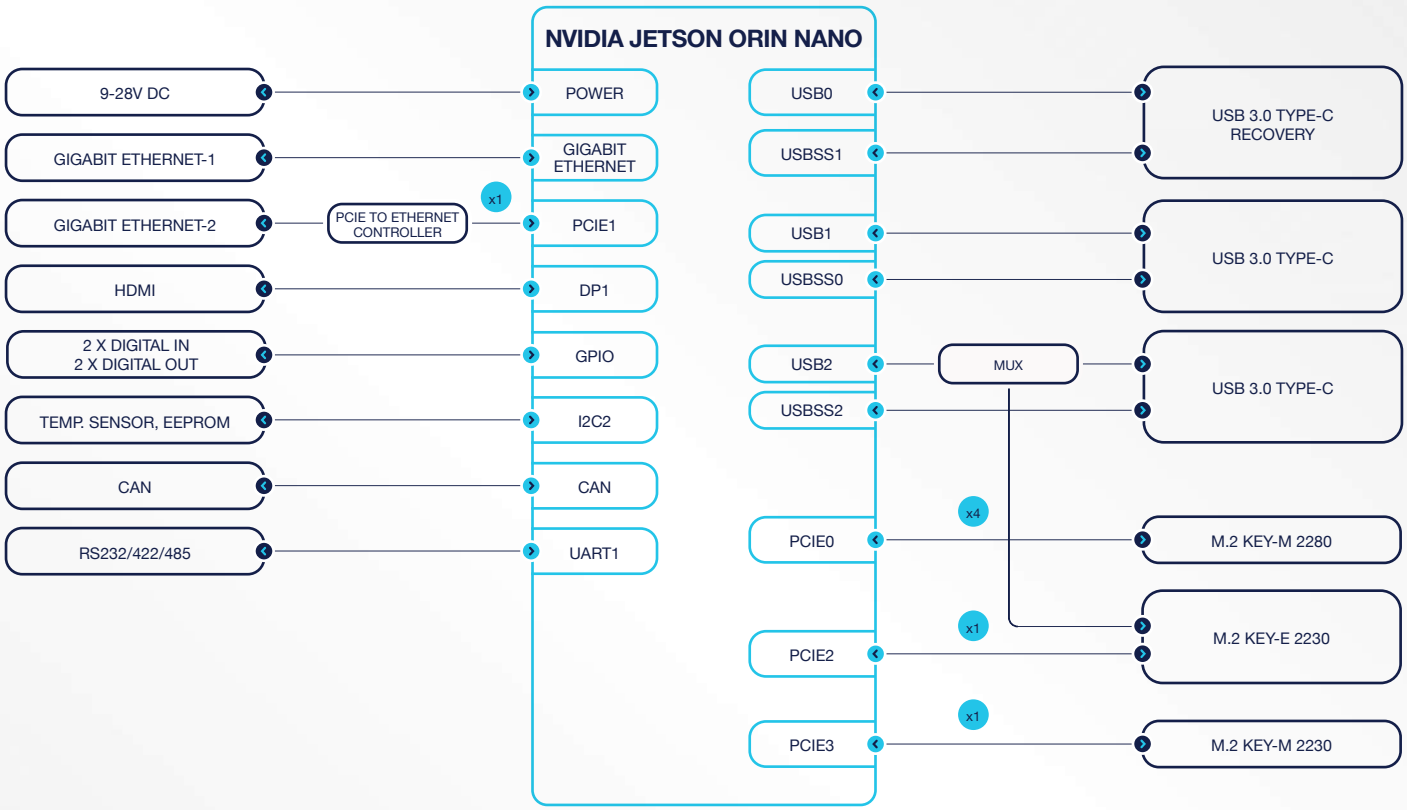

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DSBOX-TX2NX

TX2NX INDUSTRIAL BOX PC

HIGHLIGHTS

- NVIDIA Jetson TX2 NX Processor
- AI Ready for deep neural networks (1.33 TFLOPS)
- Process 14 Full-HD video streams with Deepstream SDK
- 4 GB 128-bit LPDDR4x RAM
- 4K Video Decode & Display
- Industrial IO options (RS232/485, CAN, Digital I/O)
- High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- Wide voltage input range
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson TX2 NX
Memory	4 GB 128-bit LPDDR4
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus (Only in Xavier NX and TX2NX SoM) 1x RS232/422/485 (software configurable) 1x microUSB 2.0 (Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	WiFi/Bluetooth/LTE/5G Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x M.2 Key-B, 1x MicroSD, 1x SIM
Mass Storage	16 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	110 mm x 130 mm x 67 mm, 760 gr
Operating Systems	Ubuntu Linux 18.04
JetPack Support	JetPack 4.x

DSBOX-TX2NX is an industrial PC that offers powerful edge computing capabilities for industrial applications that require high processing power and reliability in harsh environments. The PC is based on the NVIDIA Jetson TX2 NX System-on-Module and comes with a rugged and compact design that is optimized for harsh industrial environments. The aluminum chassis provides excellent heat dissipation and protection against dust, shock, and vibration. With a wide operating temperature range (-25°C to 60°C) and a wide input voltage range (9V to 28V), the DSBOX-TX2NX ensures reliable operation in a variety of industrial environments.

The PC features various connectivity options, including Gigabit Ethernet, USB 3.0, HDMI, and RS-232, as well as a M.2 NVMe slot for high-speed storage and M.2 slots for expansion modules. The DSBOX-TX2NX runs on the NVIDIA JetPack SDK, providing a complete software development environment for building and deploying AI applications on the device. Overall, the DSBOX-TX2NX is a versatile and powerful solution for industrial applications that require high processing power and ruggedness in harsh environments.

Transportation

Security and Surveillance

Healthcare

Robotics

Industrial Automation

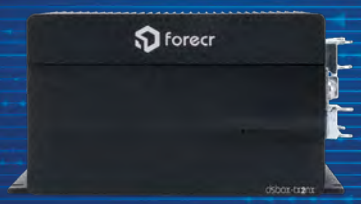
Smart City

RoHS COMPLIANT | CE

NVIDIA Preferred Partner

DSBOX-TX2NX

TX2NX INDUSTRIAL BOX PC



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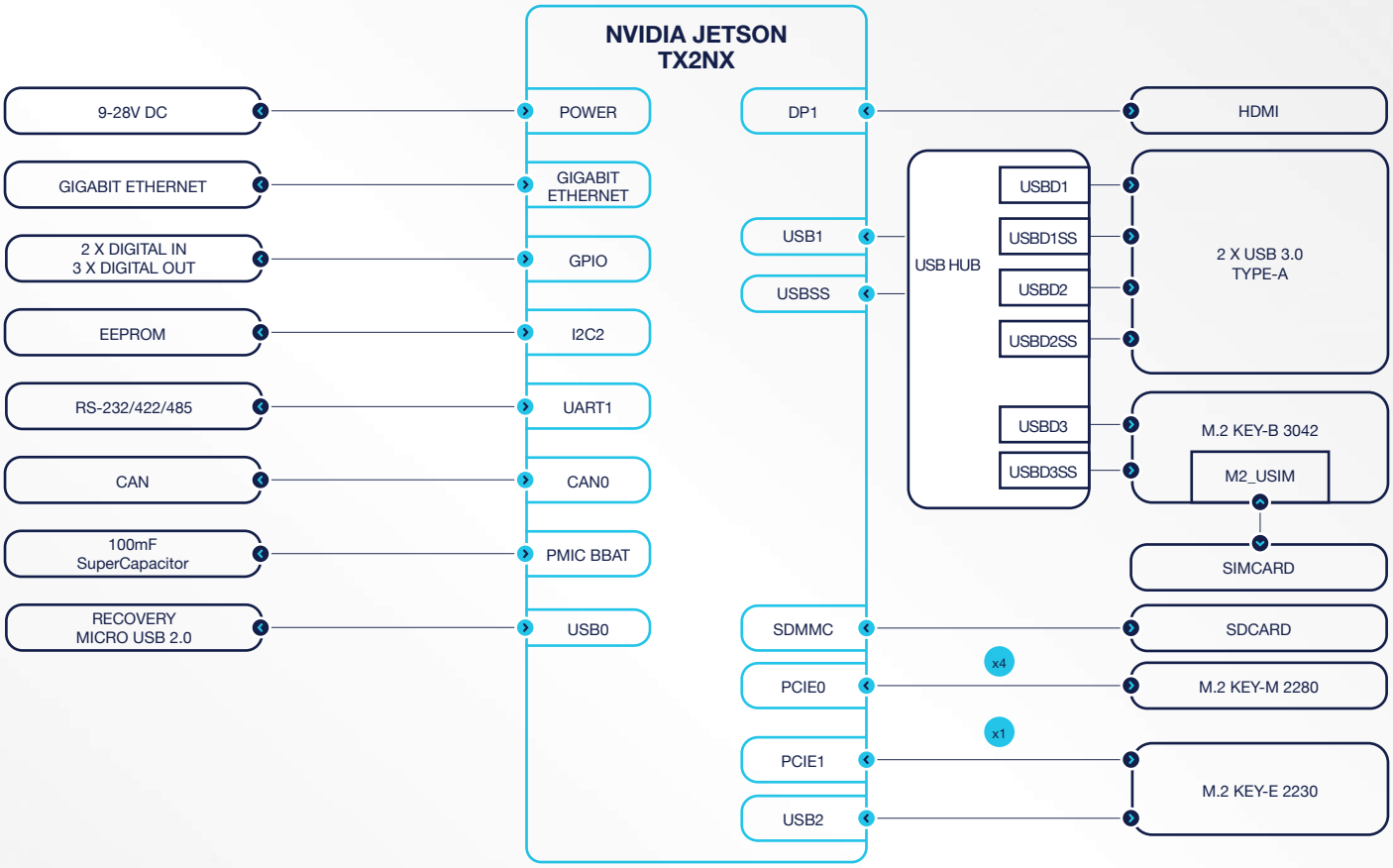

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DSBOX-XV2

AGX XAVIER INDUSTRIAL BOX PC

HIGHLIGHTS

- Supports NVIDIA Jetson AGX Xavier SOM
- AI ready for edge analytics with 32 TOPS AI performance
- 4K Video Display (HDMI 2.0)
- Industrial IO options (RS232/485, CAN Bus, Digital I/Os)
- Rich extension options (M.2 Key E, M.2 Key M)
- High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- Robust design for 7/24 operation
- Wide voltage input range
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Xavier 32GB NVIDIA Jetson AGX Xavier 64GB NVIDIA Jetson AGX Xavier Industrial
Memory	32 / 64 GB 256-bit LPDDR4x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232/422/485 (software configurable) 2x Type-C (Debug/Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	18-30 VDC
Extension Sockets	1x M.2 Key-E, 1x MicroSD
Mass Storage	32 / 64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	165 mm x 110 mm x 95 mm, 1460 gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
JetPack Support	JetPack 4.x / 5.x

DSBOX-XV2 is a powerful edge computing device designed for industrial applications that require high processing power and reliability. It is powered by the NVIDIA Jetson AGX Xavier module, which features an NVIDIA Volta GPU with 512 CUDA cores and an eight-core ARM64 CPU. This provides DSBOX-XV2 the processing power required for complex industrial applications such as machine learning, computer vision, and AI.

The DSBOX-XV2 features a rugged and compact design optimized for harsh industrial environments. It is built with an aluminum chassis that provides excellent heat dissipation and protection against dust, shock, and vibration. It also has a wide operating temperature range (-25°C to 60°C) and a wide input voltage range (18V to 32V) to ensure reliable operation in various industrial environments. DSBOX-XV2 is a powerful and reliable edge computing device that is well-suited for industrial applications that require high processing power and ruggedness. Its combination of powerful hardware and software development tools makes it a versatile solution for a wide range of industrial applications.

Transportation

Robotics

Agriculture

Manufacuring

Security and Surveillance

Smart City

RoHS COMPLIANT

NVIDIA Preferred Partner

DSBOX-XV2

AGX XAVIER INDUSTRIAL BOX PC

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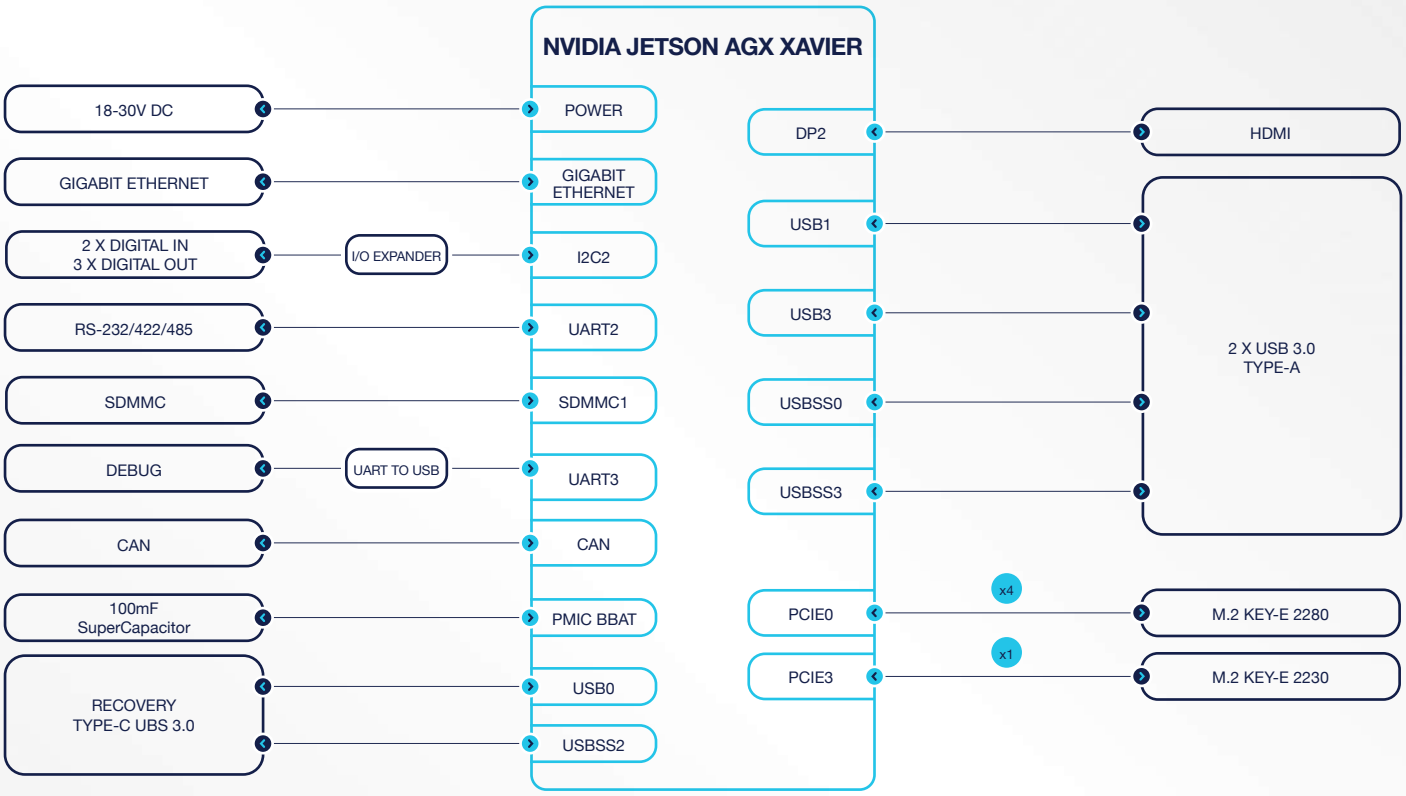

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Ruggedized Military & Railway Grade Computers

MILBOX-AGX

RUGGEDIZED AGX ORIN COMPUTER

HIGHLIGHTS

- Military-grade rugged computer
- AI Ready for deep neural networks (275 TOPS)
- 4x Gigabit Ethernet ports
- Rich IO options (4xRS232/4xRS422/2xCAN)
- Lightning-fast storage performance
- Extensive connectivity options
- Compact and powerful design
- Ruggedized chassis withstands tough conditions
- Ideal for demanding environments

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB NVIDIA Jetson AGX Orin Industrial
Memory	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5x
Graphics Interfaces	1x HDMI
Interfaces	4x Gigabit Ethernet 1x USB 3.1 2x USB 2.0 1x USB 2.0 (Serial Console) 2x CAN Bus 4x RS232 4x RS422
Wireless Communication	None
Power Supply	12-36 VDC (28 VDC Nominal)
Extension Sockets	None
Mass Storage	64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot SD Card
Ambient Conditions	-25°C ... +85°C (-40°C for Industrial Module)
Form Factor / Dimensions	225 mm x 300 mm x 100 mm, 5300gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
Operating Humidity	5% - 95% (Non-Condensing)
Standards	MIL-STD-1275/704, MIL-STD-810 MIL-STD-461, IP67
JetPack Support	JetPack 5.x / 6.x

Introducing our latest military grade ruggedized computer, powered by the cutting-edge AGX Orin SoM technology. This compact and powerful device is designed to withstand the toughest environments, making it the perfect solution for military, industrial, and other demanding applications.

With 4x Gigabit Ethernet ports, USB3.2, HDMI, 2x CAN, 4x RS- 232, and 4x RS-422, this ruggedized computer offers unparalleled connectivity options. Plus, with M.2 SSD support, you'll have lightning-fast storage performance, ensuring your critical data is always available when you need it.

Our ruggedized computer is built to last, with a ruggedized chassis that can withstand extreme temperatures, shocks, and vibrations. You can rely on this device to operate reliably in the most challenging environments. Whether you're in the military, working in industrial settings, or need a reliable computing solution for outdoor applications, our ruggedized computer is the ideal choice. With its powerful performance, rugged design, and extensive connectivity options, this device is sure to exceed your expectations.

Defense

Aerospace

Marine

Transportation

RoHS COMPLIANT

NVIDIA Preferred Partner

MILBOX-AGX

RUGGEDIZED AGX ORIN COMPUTER

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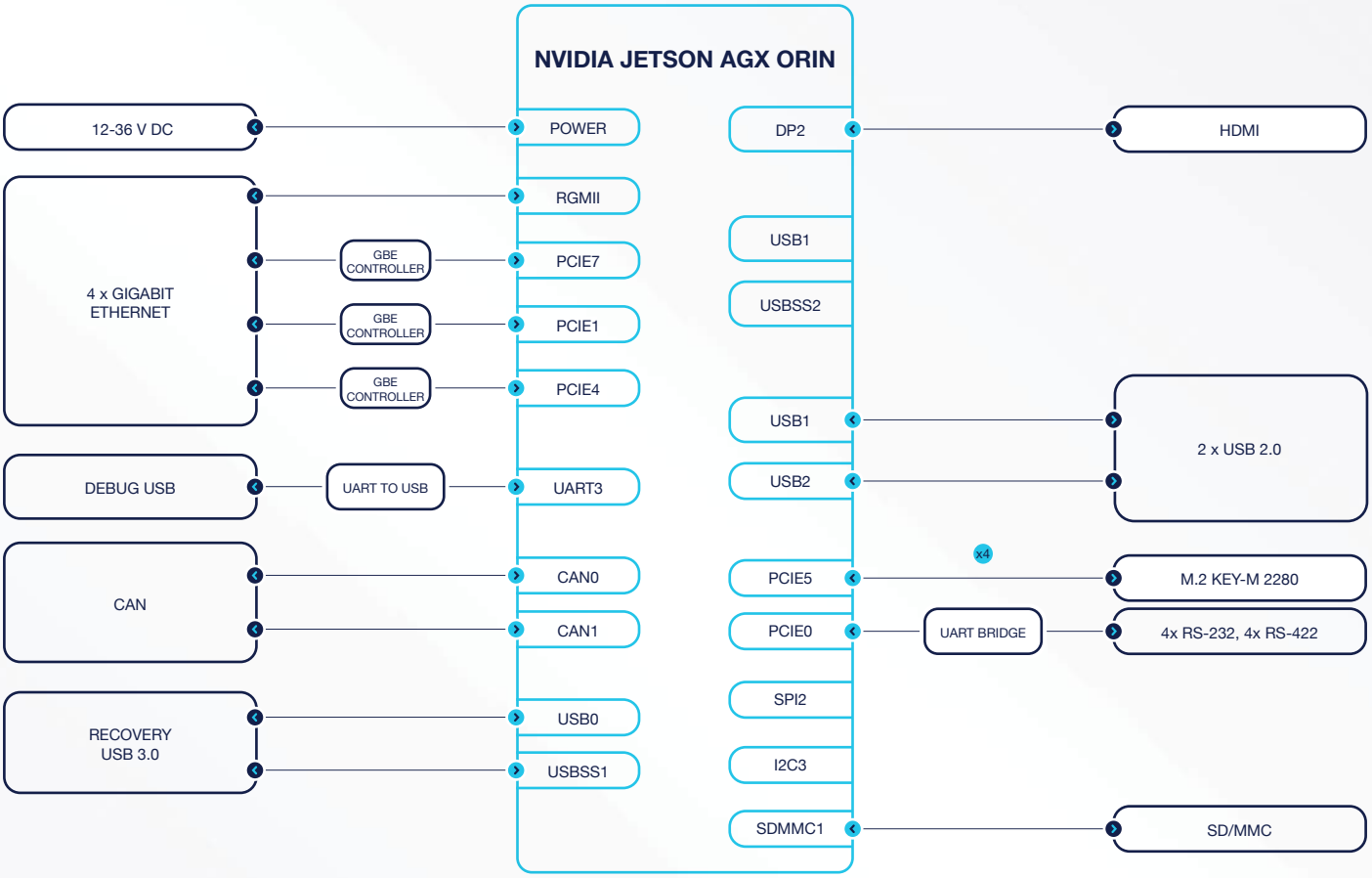

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RAIBOX-ORNX

RAILWAY GRADE ORIN NX COMPUTER

HIGHLIGHTS

- EN50155 railway grade computer for reliability
- AI ready for railway application with 100 TOPS performance
- High Speed Interfaces (2xGigabit Ethernet, USB 3.2)
- Wireless and 5G connectivity
- M.2 SSD support for enhanced storage
- Withstands extreme temperatures, shock & vibration
- Robust & secure gateway for railway infrastructure
- Low power operation (<40 Watts)
- Ideal for critical railway applications

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin NX 8GB / 16GB
Memory	8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 1x USB 3.1 Type-A 1x USB 3.1 Type-C 2x CAN Bus (Isolated) 2x RS232/RS422/RS485 (Isolated) 4x Digital In, 4x Digital Out (Isolated) 4x GMSL (FAKRA Connector)
Wireless Communication	WiFi/Bluetooth/LTE Connectivity by extension sockets
Power Supply	10-75VDC
Extension Sockets	1x M.2 Key-E, 1x M.2 Key-B, 1x SIM
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	286 mm x 210 mm x 75 mm, 3650gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
Standards	EN50155, EN45545-2 HL3, EN61373, EN60068, IP67
JetPack Support	JetPack 5.x / 6.x

Introducing the RAIBOX-ORNX, a ruggedized railway grade computer that meets the EN50155 standard, ensuring reliability and safety for your critical railway applications. Powered by the high-performance Orin NX 16GB SoM, this computer features 2x Gigabit Ethernet and GMSL Camera support, enabling seamless data transmission and processing.

With USB3.2, HDMI, 2x CAN, Wireless, and 5G connectivity, the RAIBOX-ORNX offers unparalleled flexibility and connectivity options. The M.2 SSD support further enhances its storage capabilities, making it ideal for storing and processing large amounts of data.

Designed to withstand extreme temperatures, shock, vibration, and electromagnetic interference, the RAIBOX-ORNX is the perfect solution for railway applications that require reliable and ruggedized computing power.

Whether you're looking for a powerful and dependable onboard computer for your train control and monitoring systems, or a robust and secure gateway for your railway infrastructure, the RAIBOX-ORNX is the perfect choice for your critical railway applications.

Railway

Transportation

Agriculture

Marine

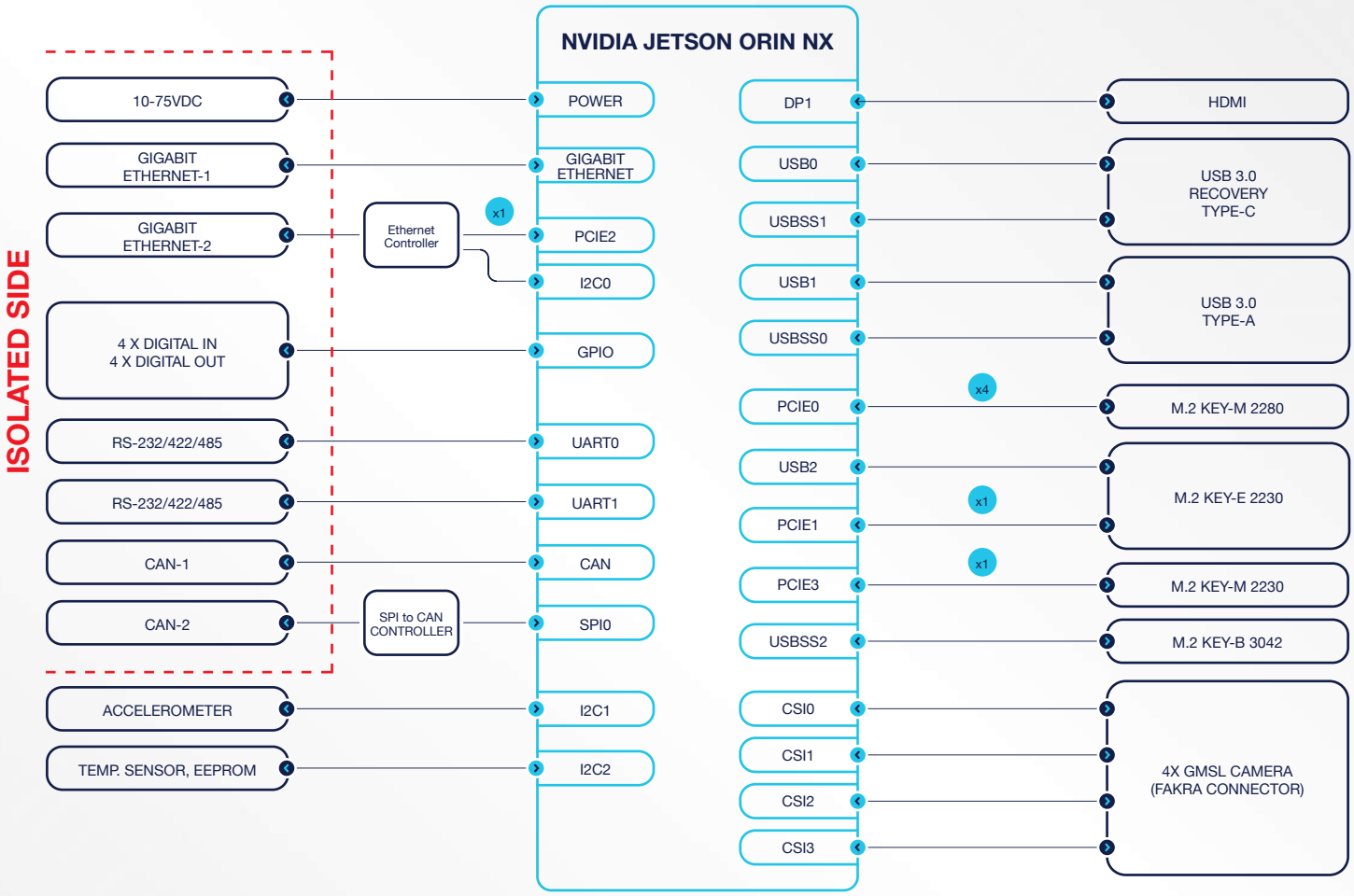
RoHS COMPLIANT

NVIDIA Preferred Partner

RAIBOX-ORNX

RAILWAY GRADE ORIN NX COMPUTER

BLOCK DIAGRAM



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MILBOX-xv

RUGGEDIZED AGX XAVIER COMPUTER

HIGHLIGHTS

- NVIDIA Jetson AGX Xavier Processor
- Supercomputer performance in Military PC form
- AI Ready for deep neural networks (32 TOPS)
- Process 32 Full-HD video streams with Deepstream SDK
- Up to 64 GB 256-bit LPDDR4x RAM
- 4K Video Encode/Decode
- Rich IO options (4xRS232/4xRS422/2xCAN)
- High Speed Interfaces (4xGigabit Ethernet, USB 3.1)
- Low power operation (<60 Watts)

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Xavier 32GB NVIDIA Jetson AGX Xavier 64GB NVIDIA Jetson AGX Xavier Industrial 32GB
Memory	32 / 64 GB 256-bit LPDDR4x
Graphics Interfaces	1x HDMI
Interfaces	4x Gigabit Ethernet 1x USB 3.1 2x USB 2.0 1x USB 2.0 (Serial Console) 2x CAN Bus 4x RS232 4x RS422
Wireless Communication	None
Power Supply	12-36 VDC (28 VDC Nominal)
Extension Sockets	None
Mass Storage	32 / 64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C (-40°C for Industrial Module)
Form Factor / Dimensions	225 mm x 300 mm x 100 mm, 5300gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
Operating Humidity	5% - 95% (Non-Condensing)
Standards	MIL-STD-1275/704, MIL-STD-810 MIL-STD-461, IP67
JetPack Support	JetPack 4.x JetPack 5.x

MILBOX-XV is the perfect computing platform for businesses that need high-performance and reliability in challenging environments. The NVIDIA Jetson AGX Xavier system-on-module, featuring an eight- core ARM CPU, 32 GB of RAM, and an NVIDIA Volta GPU, ensures top-notch processor performance. Its fanless design guarantees reliable operation in dusty or dirty environments, and it can handle extreme temperatures, shock, and vibration.

With its multiple I/O ports, including 4x Gigabit Ethernet, USB 3.0, HDMI, 4x RS-232, and 4x RS-422, the MILBOX-XV is an ideal solution for businesses that need to connect to various devices and sensors. MILBOX-XV's rugged design makes it suitable for military, industrial, and outdoor applications, and its processor performance ensures that your business can handle even the most demanding tasks.

Upgrade your business with the MILBOX-XV, a powerful computing platform that guarantees reliability and top-notch performance even in the toughest environments.

Defense

Aerospace

Marine

Transportation

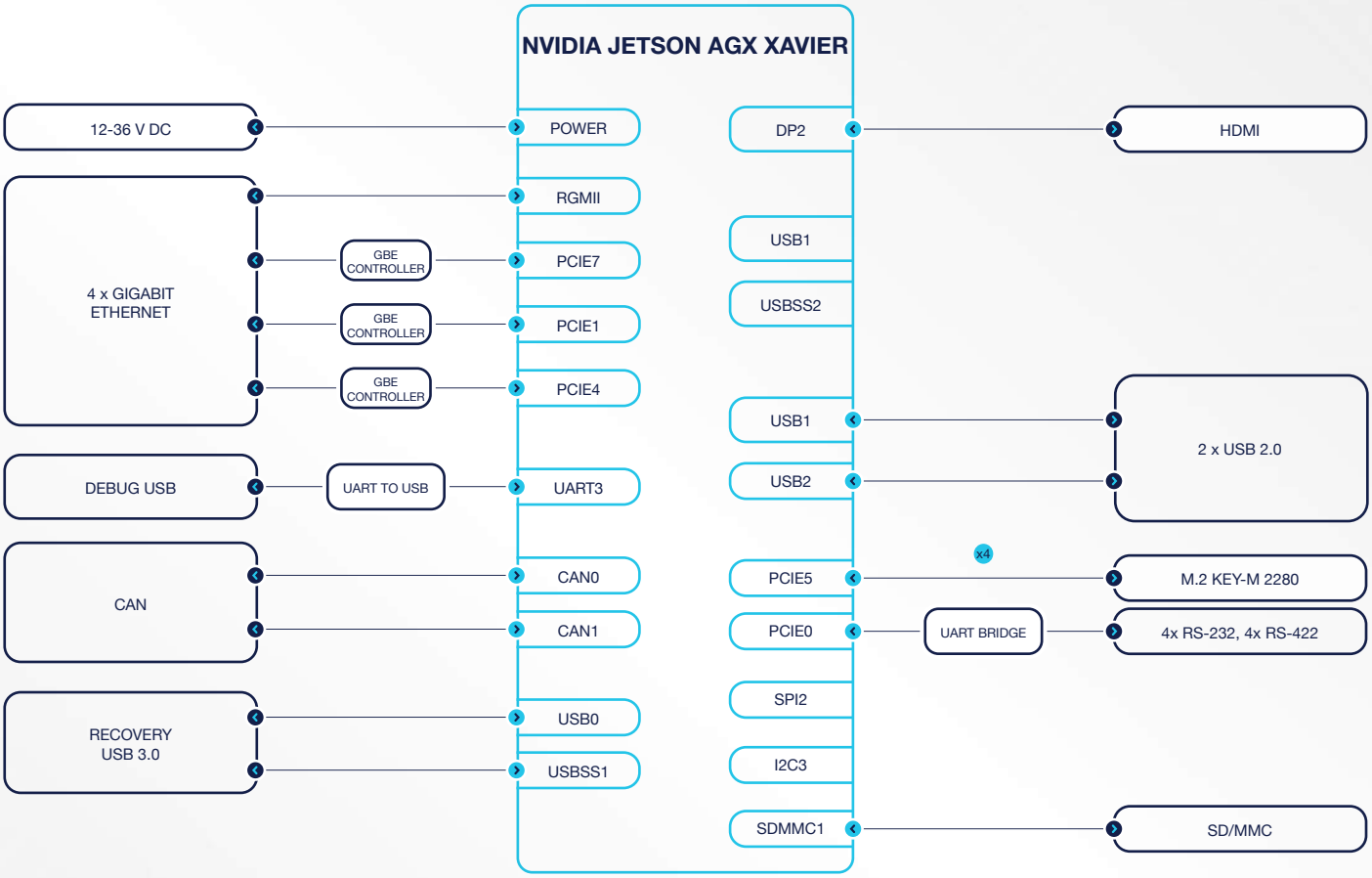
RoHS COMPLIANT

NVIDIA Preferred Partner

MILBOX-xv

RUGGEDIZED AGX XAVIER COMPUTER

BLOCK DIAGRAM



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