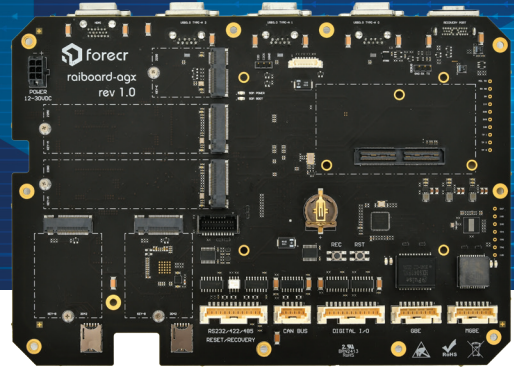


RAIBOARD-AGX

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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