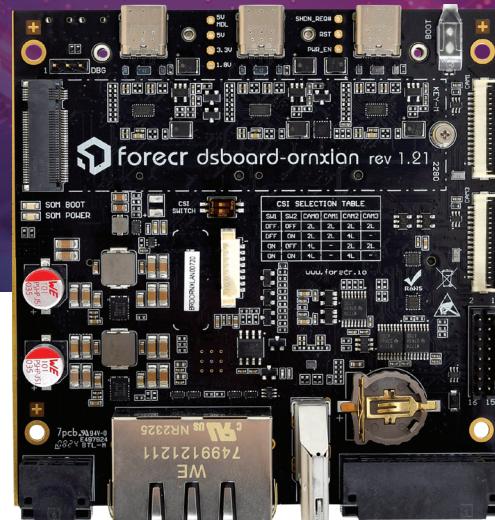




# forecr

## DSBOARD-ORNX-LAN

JETSON ORIN NX & ORIN NANO CARRIER BOARD  
with DUAL LAN



### HIGHLIGHTS

- › NVIDIA Jetson Orin Nano & NX Super Mode Support
- › AI ready for edge analytics with up to 157 TOPS performance
- › 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)
- › Wide voltage input range
- › Extended temperature range

### TECHNICAL SPECIFICATIONS

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

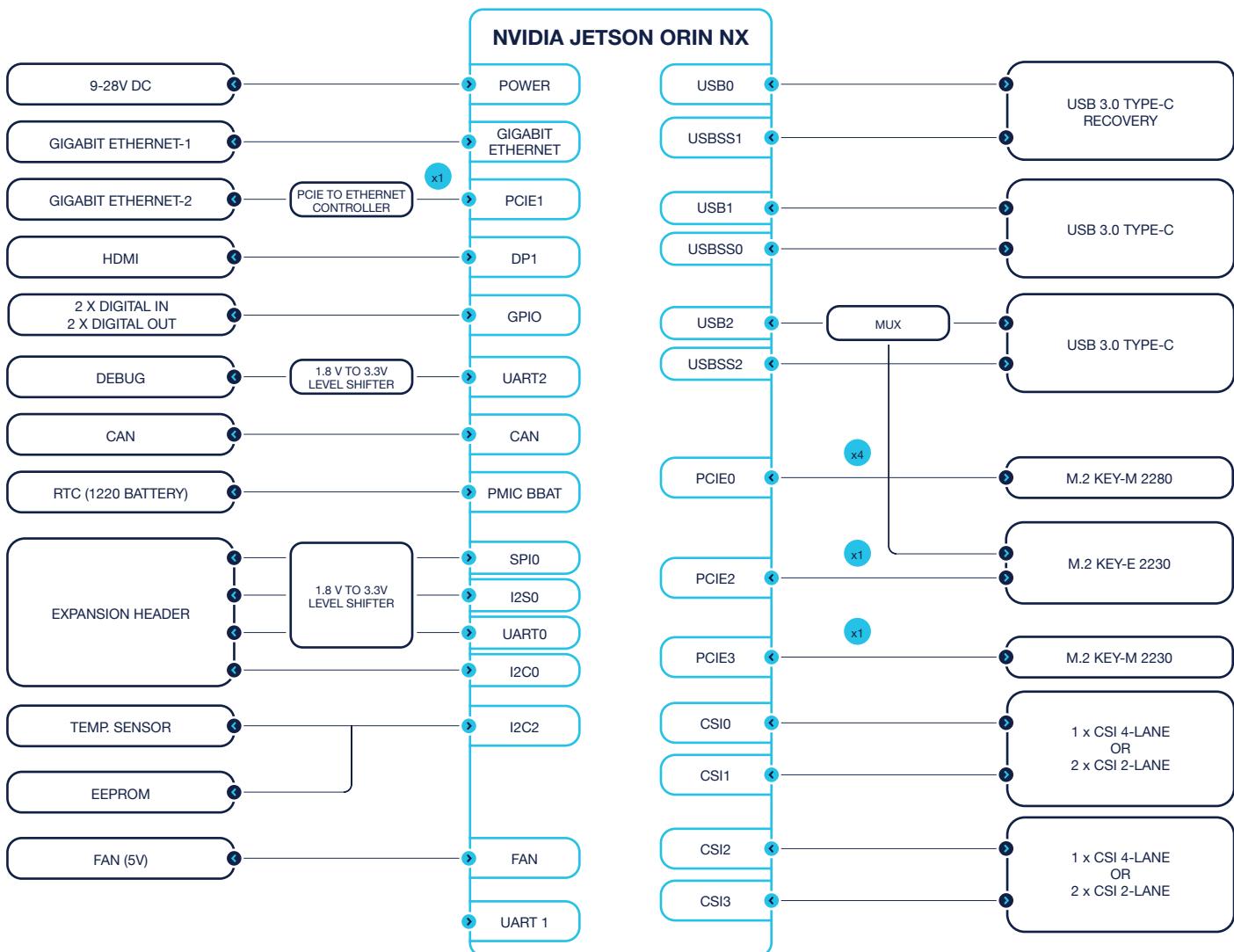


# DSBOARD-ORINX-LAN

JETSON ORIN NX & ORIN NANO CARRIER BOARD  
with DUAL LAN



## BLOCK DIAGRAM



## FOR ORDERING

### Forecr OÜ (Reg No: 16578675)

VAT No: EE102592089  
Sakala tn 7-2, Tallinn, 10141, Estonia

### Forecr OÜ (Technopol Office)

Akadeemia tee 21/1 (II-floor), Room 219, 12618, Tallinn, Estonia

### FORECR ELEKTRONIK LTD. STI. (R&D)

Gazi Üniversitesi Gölbasi Yerleşkesi Teknokent Binası B Blok  
No:10/50-B/23 06830 Gölbasi / ANKARA / TURKEY

