DSBOX-ORN-LAN
ORIN NANO INDUSTRIAL BOX PC with DUAL LAN

HIGHLIGHTS

› NVIDIA Jetson Orin Nano Super Mode Support

› Up to 67 TOPS Advanced AI performance

› Dual LAN connectivity

› 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 range and a wide input voltage range to ensure reliable operation in harsh industrial environments.

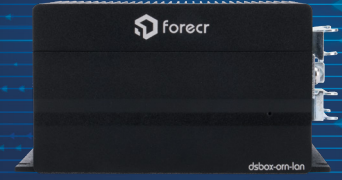Transportation

Robotics

Smart Retail

Industrial & Manufacuring

Smart City Applications
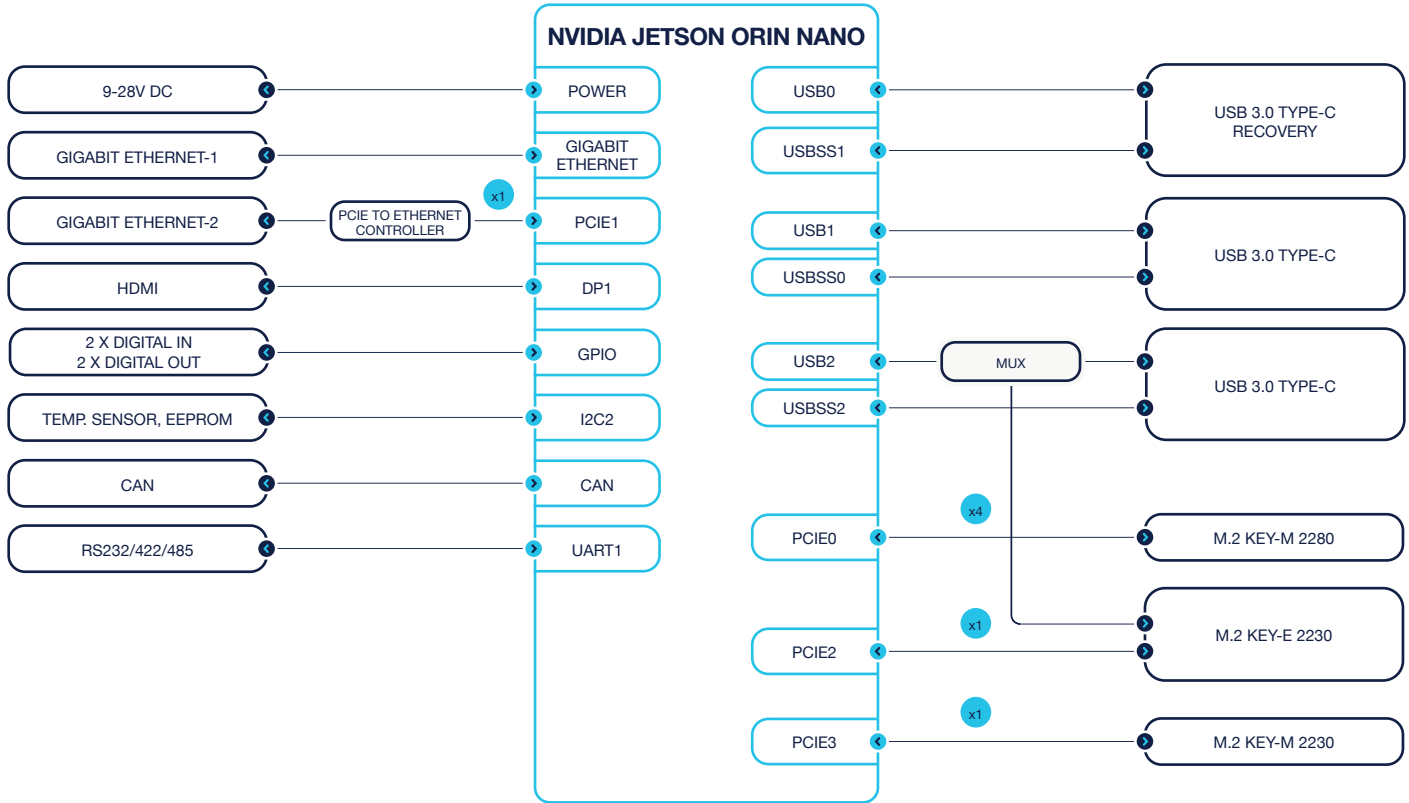
Autonomous Systems

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RoHS COMPLIANT

DSBOX-ORN-LAN

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BLOCK DIAGRAM

NVIDIA JETSON ORIN NANO

Input/Output	Jetson Pin
9-28V DC	POWER
GIGABIT ETHERNET-1	GIGABIT ETHERNET
GIGABIT ETHERNET-2 → PCIE TO ETHERNET CONTROLLER (x1)	PCIE1
HDMI	DP1
2 X DIGITAL IN / 2 X DIGITAL OUT	GPIO
TEMP. SENSOR, EEPROM	I2C2
CAN	CAN
RS232/422/485	UART1

Jetson Pin	Output
USB0	USB 3.0 TYPE-C RECOVERY
USBSS1	USB 3.0 TYPE-C RECOVERY
USB1	USB 3.0 TYPE-C
USBSS0	USB 3.0 TYPE-C
USB2 → MUX	USB 3.0 TYPE-C
USBSS2 → MUX	USB 3.0 TYPE-C
PCIE0 (x4)	M.2 KEY-M 2280
PCIE2 (x1)	M.2 KEY-E 2230
PCIE3 (x1)	M.2 KEY-M 2230

FOR ORDERING

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forecr

info@forecr.io   www.forecr.io   www.linkedin.com/company/forecr/