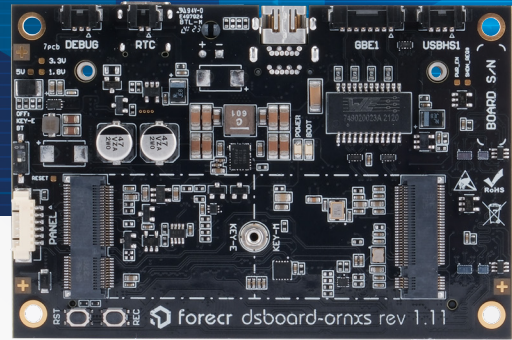# DSBOARD-ORNXS
ORIN NX & ORIN NANO COMPACT CARRIER BOARD

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
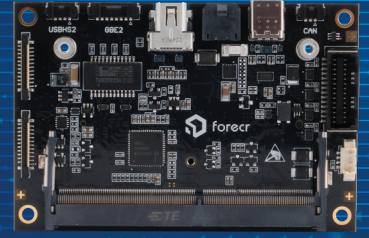
Smart City

Healthcare

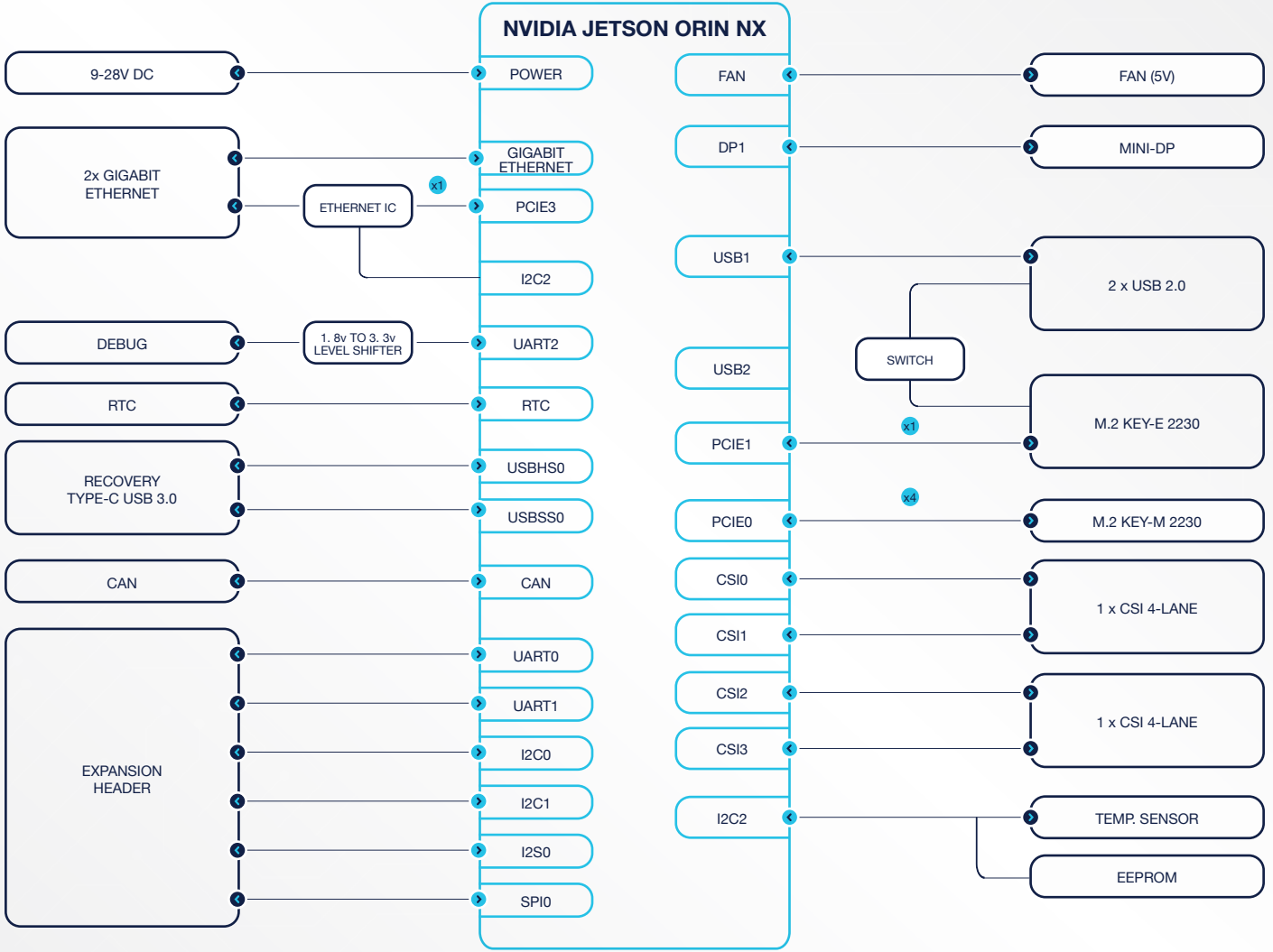Industrial Automation

Robotics

Transportation

Drones/UAVs

NVIDIA Preferred Partner

RoHS COMPLIANT

DSBOARD-ORNXS

ORIN NX & ORIN NANO COMPACT CARRIER BOARD

BLOCK DIAGRAM

NVIDIA JETSON ORIN NX

Left side	Jetson port		Jetson port	Right side
9-28V DC	POWER		FAN	FAN (5V)
2x GIGABIT ETHERNET	GIGABIT ETHERNET		DP1	MINI-DP
ETHERNET IC (x1)	PCIE3		USB1	2 x USB 2.0
	I2C2		USB2	SWITCH
DEBUG → 1.8v TO 3.3v LEVEL SHIFTER	UART2		PCIE1 (x1)	M.2 KEY-E 2230
RTC	RTC		PCIE0 (x4)	M.2 KEY-M 2230
RECOVERY TYPE-C USB 3.0	USBHS0		CSI0	1 x CSI 4-LANE
	USBSS0		CSI1	
CAN	CAN		CSI2	1 x CSI 4-LANE
EXPANSION HEADER	UART0		CSI3	
	UART1		I2C2	TEMP. SENSOR
	I2C0			EEPROM
	I2C1			
	I2S0			
	SPI0			

FOR ORDERING

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Mist Elektronik Ltd. Sti.

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