

DSBOARD-NX2

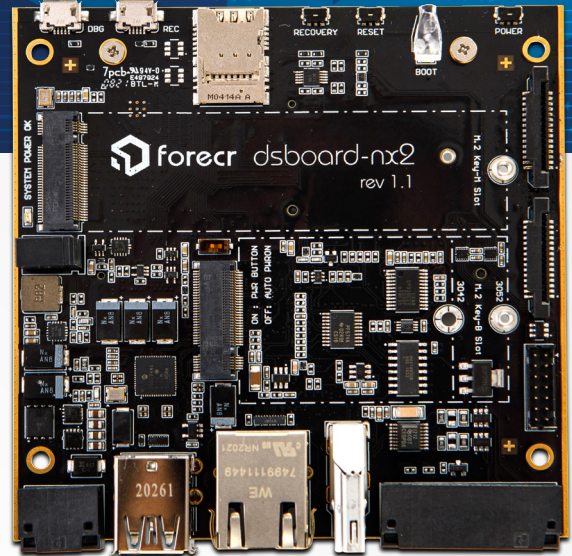
NVIDIA JETSON NANO & TX2NX
& XAVIER NX CARRIER BOARD

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) 2x microUSB 2.0 (Debug/Recovery) 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	-40°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 (4.4.1 / 4.5 / 4.5.1 / 4.6 / 4.6.1 / 4.6.2 / 4.6.3) JetPack 5.x (5.0.2 / 5.1)



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



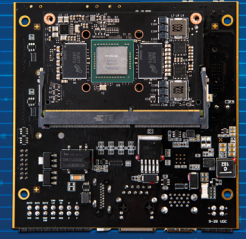
Robotics



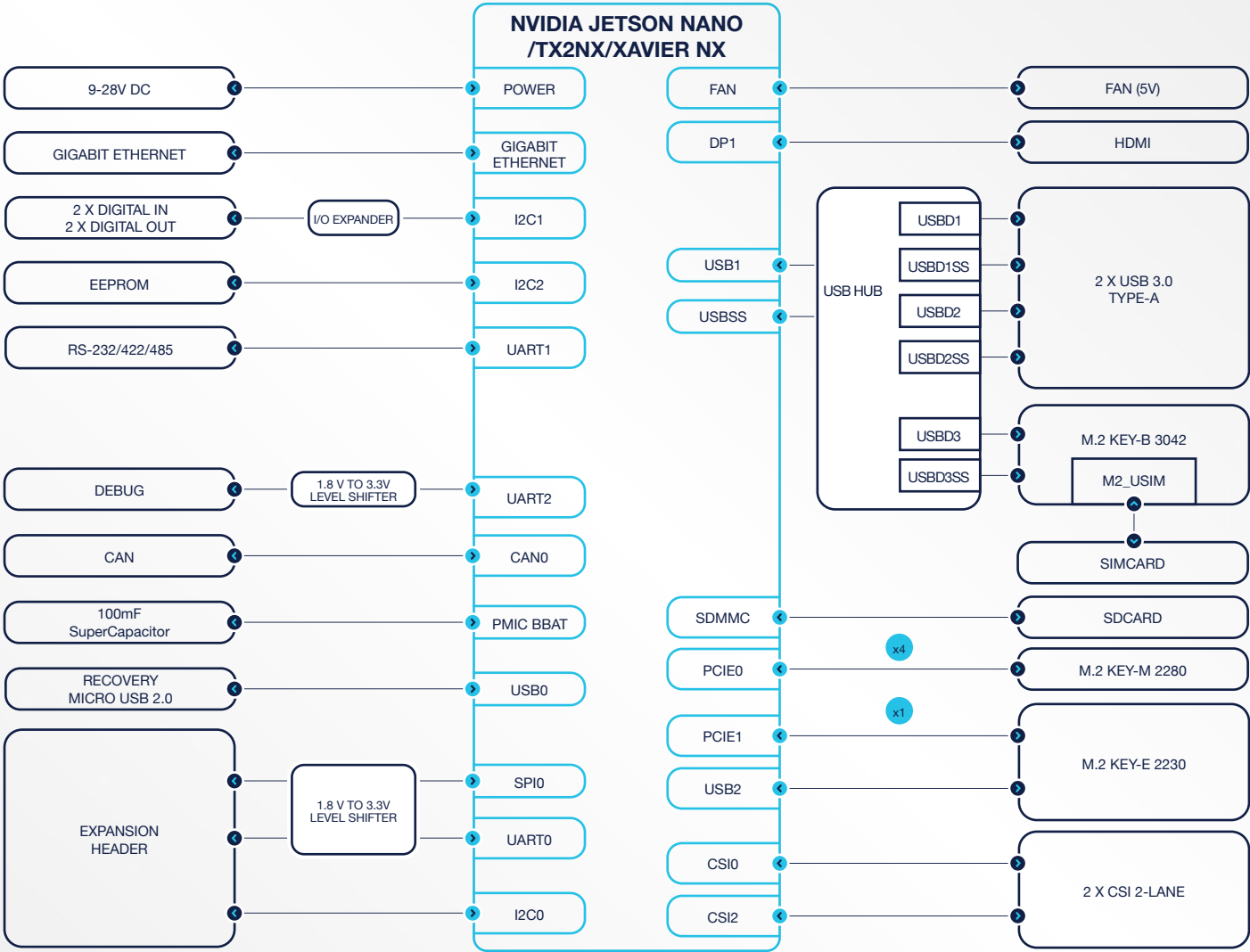
Agriculture

DSBOARD-NX2

NVIDIA JETSON NANO & TX2NX
& XAVIER NX CARRIER BOARD



BLOCK DIAGRAM



ORDERING INFORMATION

DSBOARD-NX2-AA	DSBOARD-NX2 carrier board without SOM
DSBOARD-NX2-AB	DSBOARD-NX2 carrier board with Jetson Nano SOM
DSBOARD-NX2-AC	DSBOARD-NX2 carrier board with Jetson Xavier NX 8GB SOM
DSBOARD-NX2-AD	DSBOARD-NX2 carrier board with Jetson TX2 NX SOM
DSBOARD-NX2-AC2	DSBOARD-NX2 carrier board with Jetson Xavier NX 16GB SOM

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