



RTSO-6003 Carrier Board

PN: RTSO-6003

Adaptive NVIDIA Jetson Nano/Xavier NX/TX2 NX

Hardware Vertion: V1.0



NVIDIA Jetson Nano/Xavier NX/TX2 NX module are a processor suitable for machine deep learning introduced by NVIDIA, with powerful computing power and the module area is only the size of a credit card. It is mainly aimed at the fast-developing artificial intelligence market in recent years, such as unmanned aerial vehicles and autonomous driving systems, which have relatively broad application prospects. RTSO-6003 is an industrial-grade carrier board for Nano/Xavier NX/TX2 NX, with an operating temperature of -40°C—+80°C, low power consumption, and high security level, which can meet various harsh conditions.

Model distinction:

Difference	6003	6003E	6003L	6003LE
POE power supply	Have	Have	Without	Without
Onboard eMMC	Without	Have	Without	Have

Interface comparison:

Type Interface	6003	6003E	6003L	6003LE
Adaptation Core	Xavier NX/TX2 NX/Nano			
Pre-Installed System	Ubuntu 18.04			
USB Interface	1 x USB3.0 interface (Each port has a 5Gbps bandwidth and provides 1A output current) ;1 x Micro USB2.0 OTG interface.			
HDMI	1 x HDMI 2.0 interface, 1 x Mini HDMI 2.0 interface			
Network Port	1 x GbE (10/100/1000 BASE-T) ;4 x GbE (POE 802.3 af/at PSE) (Four integrated network ports share one network card and one MAC address)		1 x GbE (10/100/1000 BASE-T) ;4 x GbE (802.3 af/at PSE) (Four integrated network ports share one network card and one MAC address)	
POE Interface	1 POE power interface (4 integrated network ports)		Without	
Communication port	1 x Isolated communication port (485, CAN, 4 I/O ports) (with Nano core, without CAN function)			
High-speed connector	1 x High-speed connector (can be connected to 6003T1/6003T2 function expansion board)			
M.2 Interface	1 x M.2 KEY M 2280 interface, 1 x M.2 KEY E 2230 interface			
RTC Interface	1 x RTC interface			
Multi-function interface	1 x multi-function pin			
SD/eMMC	1 x Micro SD	1 x 128GB eMMC	1 x Micro SD	1 x 128GB eMMC
FAN Interface	1 x Fan control interface			
Dimensions	150mm*94mm*28mm			
Power Requirements	+12V			
Operating Temperature	0°C~+70°C			
Weight	About 165g			



Physical connection with Nano /Xavier NX/TX2 NX module

RoHS

