

SD-600

NVIDIA® Jetson Orin NX / Orin Nano Fanless
Intelligent Computer

- ARM® Cortex®-A78AE 8-core Processor (Jetson Orin NX 16GB)
- 1024 NVIDIA® CUDA® Cores, 32 Tensor Cores
- 3 x M.2 Slots for Wi-Fi / WWAN / SSD Expansion
- 1 x CAN FD for Vehicle Connection
- JetPack™ SDK Includes Development Tools
- Wide-range Power Input 9~60VDC with Smart Power Management
- Wide-range Operating Temperature -25°C~70°C

Edge AI Application



CAN FD

Enables In-Vehicle Networking



Wide Range Power Input

9~60V DC Input with
Smart Power Management



Dual Ethernet

RJ45/M12 Model Available



2.5 GbE

Connect to PoE Switch



GbE

Perfect for LiDAR Connection



Dual USB 3.2

High Speed Connection for
Cameras or Sensors

Specifications

System

Module

- NVIDIA® Jetson Orin™ NX 16GB - 100 TOPS
(1024 CUDA cores + 8-core ARM Cortex-A78AE CPU + 16 GB LPDDR5)
- NVIDIA® Jetson Orin™ NX 8GB - 70 TOPS
(1024 CUDA cores + 6-core ARM Cortex-A78AE CPU + 8 GB LPDDR5)
- NVIDIA® Jetson Orin™ Nano 8GB - 40 TOPS
(1024 CUDA cores + 6-core ARM Cortex-A78AE CPU + 8GB LPDDR5)
- NVIDIA® Jetson Orin™ Nano 4GB - 20 TOPS
(512 CUDA cores + 6-cores ARM Cortex-A78AE CPU + 4GB LPDDR5)

Network

- Intel® Industrial 2.5GbE, soM Built-in GbE

Security

- Security Boot, Arm TrustZone

Interface

Ethernet

- 2 x RJ-45 / M12 X-coded for 1 x 2.5GbE & 1 x GbE

USB

- 2 x USB 3.2 Type-A

Video

- 1 x HDMI 2.1 output Supports 3840 x 2160@30Hz

Audio

- 1 x HD Audio output from the HDMI

Serial Port

- 1 x DB-9 for RS-232/422/485

CAN Bus

- 1 x CAN FD

GPIO

- 1 x DB-9 for 4 x DI / 4 x DO

Mgmt. Port

- 1 x USB Type-C for System Recovery (Device only)

SIM Card

- 1 x Nano SIM Card Slot

Antenna

- 5 x Pre-cut Holes for External SMA Antenna

RTC Battery

- High-capacity Coin Cell Battery for RTC

UPS

- UPS for System Power Backup

Internal Expansion

- 1 x M.2 2230 Key E slot
- 1 x M.2 3042/52 Key B slot with nano SIM Card Slot

mPCIe Slot

- 1 x mPCIe Full size slot (USB.2.0 supported)

Storage

Type

- 1 x M.2 2280 Key M slot supports NVMe SSD (pre-installed)

Power

Supply Voltage

- 1 x DC-IN 9 ~ 60V with Smart Power Management, OCP and OVP

Software

Operating System / BSP

- NVIDIA® JetPack including
Jetson Linux, CUDA Toolkit, TensorRT, cuDNN

Environmental

Operating Temp.

- -25 ~ 70°C, ambient w/ 0.6m/s airflow * Operating temp. varies by accessories installed.

Storage Temp.

- -40 ~ 80°C

Relative Humidity

- 10% RH – 90% RH (non-condensing)

Vibration

- Random - IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis
- MIL-STD-810G - Method 514.6, Procedure I, Category 4

Shock

- MIL-STD-810G, Method 516.6, Procedure I,
Trucks and semi-trailers=15G (11ms) with SSD

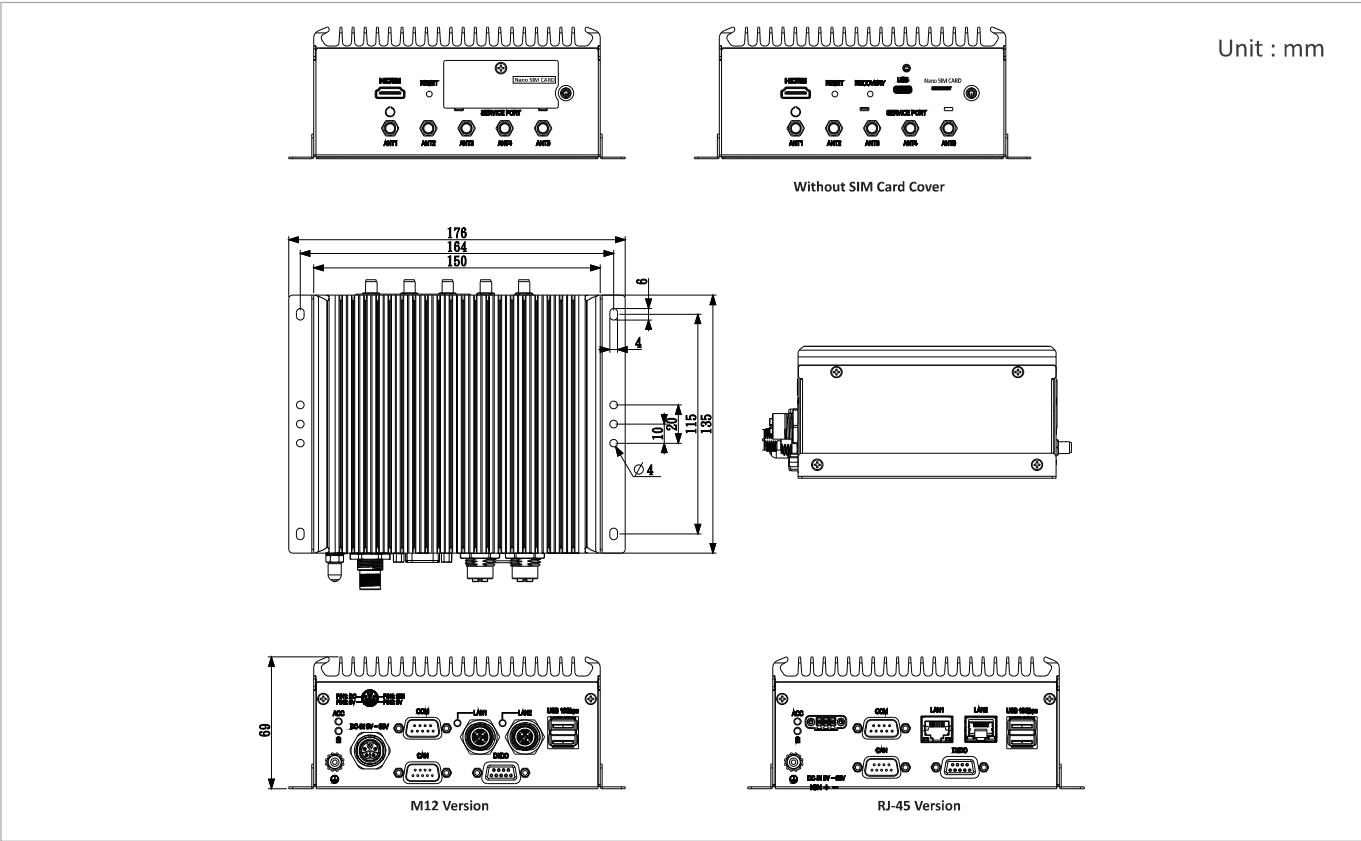
Certification / Standard

- CE, FCC Part-15 Class A, E-mark, EN50155, EN45545 (R25)

Mechanical

- Construction**
 - Aluminum Alloy
- Thermal Design**
 - Fanless Passive Cooling Design
- Mounting**
 - DIN-rail, Wall Mount
- Weight**
 - 1370 g
- Dimensions**
 - 150 mm (L) x 135 mm (W) x 66 mm (H)

Dimensions



Ordering Information

Model Number	SD-600-ONX16-S05	NVIDIA Jetson Orin NX 16GB / SSD 480GB
	SD-600-ONX8-S05	NVIDIA Jetson Orin NX 8GB / SSD 480GB
	SD-600-ON8-S05	NVIDIA Jetson Orin Nano 8GB / SSD 480GB
	SD-600-ON4-S05	NVIDIA Jetson Orin Nano 4GB / SSD 480GB
	SD-600-ON4-S02*	NVIDIA Jetson Orin Nano 4GB / SSD 240GB
	SD-600-M12X-ONX16-S05	NVIDIA Jetson Orin NX 16GB/SSD 480GB /Model M12X
	SD-600-M12X-ONX8-S05	NVIDIA Jetson Orin NX 8GB / SSD 480GB / Model M12X
	SD-600-M12X-ON8-S05	NVIDIA Jetson Orin Nano 8GB / SSD 480GB / Model M12X
Description	NVIDIA® Jetson Orin NX / Nano SoM w / 2x LAN/ 1x HDMI / 1x CAN bus / DC 9-60V / Intelligent Computer	
State of Origin	Made in China	

*NVMe SSD performance could be limited according to the storage capacity
Jetson Orin SoM Lifecycle is available through January 2030.

Optional Accessories

Wi-Fi	M.2 2230 Wi-Fi Module
WWAN Modem	M.2 3042/52 WWAN Modem
GPS	mPCIe GPS Module

All specifications are subject to change without notice.