

LTE / GPS / WI-FI



2x USB 2.0
CFast /uSD
DisplayPort

Image similar



Power Supply
9 ... 30VDC

2x CAN

4x Gbit LAN

2x USB 3.1

IPC/COMPACT A3N

This fanless COMPACT A3N generation is based on the NVIDIA Jetson AGX Xavier NX processor module and offers a wide range of interface options.

The robust and uncompromising industrial design allows the implementation in the most demanding AI applications and guarantees long term availability.

- 24/7 continuous operation
- Extended AI Computing
- No moving parts
- Product lifecycle management
- Long term availability with fixed BOM

 **NVIDIA.** Linux for Tegra (L4T)

Product Highlights

Maintenance free
Goldcap instead of battery backup
No moving parts / passive cooling
ARM CPU core
Hardware watchdog
Temperature supervision
ESD- protection on all interfaces
Long term availability (fixed BOM)
Shock and vibration resistant

Product Features

384-core NVIDIA Volta™ GPU
with 48 Tensor Cores
6-Core ARM v8.2 64-bit NVIDIA Carmel CPU
8GB 128-bit LPDDR4x RAM soldered on board
Socket for CFast
Ethernet, USB, Passive or Active CAN
Optional LTE & WiFi extensions
Aluminum & Stainless steel housing
Protection class IP40

Markets / Applications

Industrial Automation
Automated Guided Vehicle (AGV)
Traffic control
Transportation and vehicle construction
Cleantech



Processor module / Performance

NVIDIA Jetson JETSON AGX XAVIER NX 384-core NVIDIA Volta™ GPU with 48 Tensor Cores	•
6-Core ARM v8.2 64-bit NVIDIA Carmel CPU	•
AI Performance (INT8)	21 TOPs

Memory / Storage

Data Cache Size	2MB
128-bit LPDDR4x RAM soldered on board	8GB
eMMC 5.1 Flash Storage on board	16GB
microSD Card socket ²	1
CFast socket with retention frame ²	1

Features

Real time clock PC compatible with battery backup Renata CR2477N (950mAh)	•
Real time clock PC compatible with Goldcap backup (48h)	optional
Hardware Watchdog & Temperature supervisor	•
Intelligent power management	•

Communication Interfaces

Graphic interface		DisplayPort 1.4
USB version 3.1	(Type A)	2
Internal USB version 2.0 OTG <small>behind the cover</small>	(micro USB Type AB)	1
Ethernet 10/100/1000Mbit (1x native, 3x I210-IT)	(RJ45)	4
Active/passive-CAN ESD protected, isolated	(1x DSUB9)	2
RS232 / RS422/485 ESD protected	(DSUB9)	optional
Mini PCIe socket ²		1
I2C bus ²		•
Buzzer		•
MIPI CSI-2 / GMSL 1&2 Camera interface ¹		on request

Wireless Connectivity

Cellular Module (LTE/UMTS/GSM) with GNSS positioning functionality Sierra Wireless MC7455 - M2M only!	(3x SMA)	optional
Dual SIM Support (nanoSIM to mPCIe slot ²)		•
Inertial measurement unit (IMU) STMicroelectronics ISM330DLC		•
Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 4.1 Sparklan WPEB-263ACNI(BT)	(2x RP-SMA)	optional

Technical Data

Dimensions w174 x h52 x d127 mm <small>(housing without mounting bracket)</small>	•
Net weight in gram	~ 1000
Non isolated input voltage, with Ignition controller, reverse polarity protected	9... 30VDC
Current consumption typ. in mA @ 24V without Add-Ins, idle	~ 400
Power consumption typ. in Watt @ 24V without Add-Ins, idle	~ 10

Environmental Conditions

Operating temperature ³	-25°C ... +60°C
Storage temperature	-25°C ... +80°C
Protection standard: IP40	•
Conformal coating ⁴	tbd
Shock: EN60068-2-27 / EN61373	•
Vibration: EN60068-2-64 / EN61373	•
EMI-Conformity EN-50121-3-2	•
Safety according to EN62368-1	•
Radio and Telecommunication: Designed to meet RED	•
estimated MTBF ~ 150 000h (17.1 Years) @ 25°C <small>excluding battery</small>	tbd

¹ Please contact factory for minimum order quantities² Internal connector³ Depending on installation situation and interface connection. Please see user documentation⁴ On all possible components (excl. Xavier Module, connectors and wireless devices)

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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