COMPACT AI Vehicle Series

Computer Vision Edge Unit with NVIDIA Jetson TX2 NX



IPC/COMPACT A2N - RS

This fanless COMPACT A2N generation is based on the NVIDIA Jetson TX2 NX processor module and offers a wide range of interface options.

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

- 24/7 continuous operation
- Extended AI Computing
- Passively cooled, no moving parts
- Long term availability with fixed BOM



Product Highlights

Maintenance free Power Ignition Controller Shock and vibration resistant LTE, GNSS and Wi-Fi connectivity options No moving parts / passively cooled

Product Features

256-core NVIDIA Pascal™ GPU Dual-Core NVIDIA Denver 2 64-Bit CPU Quad-Core ARM® Cortex®-A57 MPCore 4GB 128-bit LPDDR4x RAM soldered on board M.2 NVMe slot for storage expansion up to 2TB Ethernet, USB, passive or active CAN LTE, GNSS & WiFi options Aluminum & Stainless steel housing Protection class IP65

Industries / Applications

Autonomous Mobile Robots (AMRs)
Automotive
Transportation
Robotics
Agriculture
Construction Vehicles



•
•
1.33 TFLOPs
2MB
4GB
16GB
1
1
•
•
on request
on request
DisplayPort 1.4
1
2
HDMI 2.0
1
2
1
2
on request
on request
on request
511.54.2.2.
none
none
none
Hone
w182 x h60 x d127
w218 x h60 x d127
~1600
9 45VDC
~8.5
0.5
−25°C +70°C
-25°C +85°C
-25 C +85 C
on request EN60068-2-27
EN60068-2-64
EN55032 / EN55035
EN52032 / EN52033 EN62368-1
11/0
~550 000h

¹ Please contact factory for minimum order quantities

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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² Internal connector

³ Depending on installation situation and interface connection. Derating of max. operating temp. is possible when using the cellular LTE module. Please see user documentation.

⁴ On all possible components (excl. TX2 NX module, connectors and wireless devices)

⁵ It is possible to equip the products with an Industrial grade Apacer PV210 NVMe SSD. Retrofitting an SSD is not possible by the user without complete disassembly. Use these part codes: IPC/RSA2NH20-[E/F]102S-01 = 120GB | IPC/RSA2NH20-[E/F]102S-02 = 240GB | IPC/RSA2NH20-[E/F]102S-05 = 480GB | IPC/RSA2NH20-[E/F]102S-10 = 960GB