

Al Vehicle Computer COMPACT Al Vehicle Series

Computer Vision Edge Unit with NVIDIA Jetson Xavier NX



IPC/COMPACT A3N - RS

This fanless COMPACT A3N generation is based on the NVIDIA Jetson 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 mobile AI 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

384-core NVIDIA Volta[™] GPU with 48 Tensor Cores 6-Core ARM v8.2 64-bit NVIDIA Carmel CPU 8GB / 16GB 128-bit LPDDR4x RAM M.2 NVMe slot for storage expansion up to 2TB USB 3.1 and HDMI 2.0 ports with dust covers Ethernet, passive or active CAN LTE, GNSS & WiFi Aluminum & Stainless steel housing Protection class IP65

Industries / Applications

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

CE

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Your partner for reliable embedded computer solutions.

Order Code IPC/RSA3NI19-E102S^{1,5} IPC/RSA3NI19-F106S^{1,5}

•
optional
21 TOPs
2MB
8GB
16GB
1
1
•
on request
DisplayPort 1.4
1
2
HDMI 2.0
1
2
1
2
optional
optional
on request
3x SMA
2x RP-SMA
on request
w182 x h60 x d127
w218 x h60 x d127
~1650
9 45VDC
~8.5
-25°C +70°C
-25°C +85°C
IP65
on request
EN60068-2-27
EN60068-2-64
EN55032 / EN55035
EN62368-1
RED
~375 000h
E

² Internal connector

ASSUR

- dula / Dauf

³Depending on installation situation and interface connection. Please see user documentation.

*On all possible components (excl. Xavier NX module, connectors and wireless devices) 51t 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/RSA3NI19-[E/F]10x5-01 = 120GB | IPC/RSA3NI19-[E/F]10x5-02 = 240GB | IPC/RSA3NI19-[E/F]10x5-05 = 480GB | IPC/RSA3NI19-[E/F]10x5-01 = 960CB ⁶ These LTE and Wi-Fi modules have replaced the previously used Sierra Wireless MC7455 and SparkLAN WPEB-263ACNI(BT) due to these modules going EOL (previous products: IPC/RSA3NI19-F1025)

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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Assured Systems

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