### **COMPACT AI Vehicle Series**

Intelligent Machine Learning Unit with NVIDIA Jetson Xavier NX

# preliminary first draft



## IPC/COMPACT A3N - RM

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 Al applications and guarantees long term availability.

- Power over Ethernet (PoE+), 48VDC out
- 24/7 continuous operation
- 6 total LAN Interfaces with individual NIC's
- Passively cooled, no moving parts
- Long term availability with fixed BOM



#### **Product Highlights**

Maintenance free Power Ignition Controller Shock and vibration resistant Each LAN interface has its own dedicated NIC 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 128-bit LPDDR4x RAM soldered on board M.2 slot for storage expansion Ethernet, USB, Passive or Active CAN Optional LTE, GNSS & WiFi extensions Aluminum & Stainless steel housing Protection class IP65

#### Markets / Applications

Automated Guided Vehicles (AGV) Automotive Transportation Robotics Agriculture Construction Vehicles



For Part   Pa	Processor module / Performance		,	,
A Performance (NTP)   21 TOPs   2			•	•
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Memory   Storage   Data Carbe Size   Data Car			21 TOPs	21 TOPs
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128-bit   12DDRx RAM soldered on board   16GB   16GC   16MC   17   18   16GB   16GC   16MC   17   18   17   18   18   18   18   18	1,		2MP	2MP
MAD 2280 slot for SDS to storage up to 2TB²   1   1   1   1   1   1   1   1   1				
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				EN55032 / EN55035
				EN62368-1
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<sup>1</sup> Please contact factory for minimum order quantities <sup>2</sup> Internal connector				

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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<sup>&</sup>lt;sup>3</sup> Depending on installation situation and interface connection. Please see user documentation

<sup>&</sup>lt;sup>4</sup> On all possible components (excl. Xavier NX module, connectors and wireless devices)