

Al Embedded Box PCs

COMPACT AI Rugged Series

Intelligent Machine Learning Unit with NVIDIA Jetson Xavier NX

preliminary



RPC/COMPACT A3N

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 AI applications and guarantees long term availability.

- 24/7 continuous operation
- Extended AI Computing
- IP67 protection
- Product lifecycle management
- · Long term availability with fixed BOM



Product Highlights

Ultra rugged Sealed housing Shock and vibration resistant Maintenance free No moving parts / passively cooled Hardware watchdog Temperature supervision Long term availability (fixed BOM)

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 NVMe slot for storage expansion up to 2TB USB 3.0 and HDMI 2.0 ports with dust covers Ethernet, active / passive CAN Optional LTE & WiFi extensions Aluminum housing Ingress Protection class IP67

Markets / Applications

Automated Guided Vehicles (AGV) Agriculture Automotive Transportation Construction Vehicles Cleantech Outdoor applications

CE

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Your partner for reliable embedded computer and display solutions.



Processor module / Performance Performa		Order Code	RPC/RSA3NI19-A102S1	RPC/RSA3NI19-B102S1
Performance (NTR) Performance (NTR) 21 TOPS 21	Processor module / Performance			
AP Performance (NTB) 21 TOPS Memory / Storage 2 MB 2 MB 128-bit IPDORKs RVM soldered on board 8GB 8GB 6MMC S.1 RBs A Storage on board 16GB 16GB M2 2280 NVMe SD Ceata Retanalges 270° Series (RVM: 16GB/s) 10GB/s) 25 5GB 25 5GB M2 2280 NVMe SD Ceata Retanalges 270° Series (RVM: 16GB/s) 10GB/s) 1 1 Features Intention Resourcement unit (IMU) STM-carded-ravial SMISSOCHOTT • • • Bard Real time dock (RTC) with battery backup Revent CRETTN (Storakh) • • • • Bard Lime Gock (RTC) with battery backup Revent CRETTN (Storakh) • • • • • Communication Interfaces Bosphyrot 1.4 DisplayPort 1.4 Display Port 1.4 DisplayPort 1.4<	NVIDIA Jetson Xavier NX 384-core NVIDIA Volta™ GPU with 48 Tensor Cores		•	•
Data Carbe Size 248	6-Core ARM v8.2 64-bit NVIDIA Carmel CPU		•	•
Pack	Al Performance (INT8)		21 TOPs	21 TOPs
Pack	Memory / Storage			
MAIL 2280 NVMe SSD carts Technologies 2709 Seeies (RVW.1 6GR/s) 1.0GR/s) 256GB 256GB 1.0 1			2MB	2MB
	128-bit LPDDR4x RAM soldered on board		8GB	8GB
	eMMC 5.1 Flash Storage on board		16GB	16GB
Features Feature			256GB	256GB
Feel time clock (RTC) with battery backy Renata CR2477N (SSOM/Nh)	microSD Card socket ²		1	1
Real time clock (RTC) with battery backup Renata CR2477N (950mAh) 1	Features			
Flat Angle Watch Long & Temperature supervisor	Inertial measurement unit (IMU) STMicroelectronics ISM330DHCXTR		•	•
Communication Interfaces	Real time clock (RTC) with battery backup Renata CR2477N (950mAh)		•	•
Graphic interface behind the sentice cover Internal USB version 2.0 OTG behind the sentice cover (micro USB Type AB) 1 1 1 USB VERSION 2.0 Type A) 2 2 2 2 Graphic interface HDMI 2.0 HDMI 2.0 USB version 3.1 (Type A) 1 1 1 1 USB version 3.1 (M12 female, x-coded) 2 2 2 Active/passive-CAN ESD protected, isolated (M12 female, x-coded) 1 1 1 2 2 2 2 2 Active/passive-CAN ESD protected, isolated (M12 female, a-coded) 1 1 1 1 Buzzer Mini PCle socket ² 2 2 2 2 Zobus ² In 1 1 Buzzer MIPI CSI-2 / GMSL2 / FPDLinkIII Camera interface ¹ on request Wireless Connectivity Cellular Module (LTFL/MTS/CSM) with GNSS positioning functionality siera Wireless MC/495 - M2M only/ (Dual nano SIM) Wireless LAN EEER 80.2 11a/Pyfland culal-hand 222 MIMO & Bluetooth 4.1 SparkLAN WPEB-263ACH/(BT) Dimensions [mm] (housing, ind. mounting) Wats x h75 x d165 Vert weight [gram] Optional controller, reverse polarity protected (M12 male, a-coded) Power consumption type, in Watt @ 24V without Add-ins, idle - 2000 Q-2000 Non isolated Input voltage, with Ignition controller, reverse polarity protected (M12 male, a-coded) Dimensions [mm] (housing, ind. mounting) Not weight [gram] Operating temperature - 2-25°C+80°C -25°C+80°C -25°C			•	•
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estimated MTBF @ 25°C ambient excluding battery tbd tbd				
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			tbd	tbd

¹Please 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

 $^{^{\}scriptscriptstyle 3}$ Depending on installation situation and interface connection. Please see user documentation

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



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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