

Dual nanoSIM
CFast
2 x USB
uSD
DisplayPort

LTE / GPS / WI-FI




RPC/COMPACTA2

This fan less RPC/RS-COMPACT-A2 generation is based on the Nvidia Jetson TX2(i) processor module and offers a wide range of interface options.

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

- IP67 Protection
- Shock and vibration resistant
- Dust and water proof
- Extended AI Computing
- 24/7 continuous operation

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

Product Highlights

Ultra rugged
Sealed housing
Maintenance free
No moving parts / passive cooling
ARM CPU core
Hardware watchdog
Temperature supervision
ESD- protection on all interfaces
Long term availability (fixed BOM)
Goldcap or battery backup

Product Features

256-core NVIDIA Pascal™ GPU
Dual-Core NVIDIA Denver 2 64-Bit CPU
Quad-Core ARM® Cortex®-A57 MPCore
8GB 128-bit LPDDR4 RAM soldered on board
Socket for CFast
Ethernet, USB, CAN
Field M12 connectors
Rugged aluminum housing
Protection class IP67

Markets / Applications

Construction Vehicles
Heavy Machinery
Transportation



Processor module / Performance

NVIDIA Jetson TX2i 256-core NVIDIA Pascal™ GPU	•		
NVIDIA Jetson TX2 256-core NVIDIA Pascal™ GPU		•	•
AI Performance	1.3 TOPs	1.3 TOPs	1.3 TOPs
Dual-Core NVIDIA Denver 2 64-Bit CPU and Quad-Core ARM® Cortex®-A57 MPCore	•	•	•

Memory / Storage

Data Cache Size	2MB	2MB	2MB
4ch x 32-bit LPDDR4 RAM soldered on board	8GB	8GB	8GB
eMMC 5.1 Flash Storage on board	32GB	32GB	32GB
microSD Card socket ²	1	1	1
CFast socket with retention frame ²	1	1	1

Features

Real time clock PC compatible with Goldcap backup	48h	48h	48h
Real time clock PC compatible with battery backup	optional	optional	optional
Hardware Watchdog & Temperature supervisor	•	•	•
Intelligent power management	•	•	•

Communication Interfaces

Graphic interface <small>behind the cover</small>		DisplayPort 1.2	DisplayPort 1.2	DisplayPort 1.2
USB version 2.0 <small>behind the cover</small>	(Type A)	2	2	2
USB version 2.0	(1x M12 female)	2	2	
USB version 3.0 ¹		on request	on request	on request
Internal USB version 2.0 OTG <small>behind the cover</small>	(micro USB Type AB)	1	1	1
Ethernet 10/100/1000Mbit	(M12 female x-coded)	1	1	1
Ethernet 10/100/1000Mbit (I210-IT)	(M12 female x-coded)	1	1	1
Active/passive-CAN ESD protected, isolated	(1 x M12 female)	2	2	
Mini PCIe socket ²		1	1	1
I2C bus ²		•	•	•
Buzzer		•	•	•

Wireless Functions

Cellular 4G Module with GNSS positioning functionality (LTE/UMTS/GSM)	(3 x SMA)	•	•	optional
Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO	(2 x RP-SMA)	optional	•	•
Dual SIM Support (nanoSIM to mPCIe slot) ²		•	•	optional
Acceleration / Motion Sensor STMicroelectronics ISM330DLC		•	•	•

Technical Data

Dimensions w245 x h75 x d165 mm (housing, incl. mounting)		•	•	•
Net weight in gram		~ 3000	~ 3000	~ 3000
Input voltage reverse polarity protected with ignition controller	(M12 4P male A-coded)	16.8 ... 45VDC	9 ... 45VDC	9 ... 45VDC
Current consumption typ. in mA @ 24V without Add-Ins, idle		~ 400	~ 400	~ 400
Power consumption typ. in Watt @ 24V without Add-Ins, idle		~ 10	~ 10	~ 10

Environmental Conditions

Operating temperature ³		-40°C ... +70°C	-25°C ... +65°C	-25°C ... +65°C
Storage temperature		-40°C ... +85°C	-25°C ... +80°C	-25°C ... +80°C
Protection standard: IP67		•	•	•
Conformal coating ⁴		tbd	tbd	tbd
Shock: EN60068-2-27 / EN61373		•	•	•
Vibration: EN60068-2-64 / EN61373		•	•	•
EMI-Conformity EN-50121-3-2		•	•	•
Designed to meet safety according to EN62368-1		•	•	•
Radio and Telecommunication: Designed to meet RED		•	•	•
MTBF ~ 150 000h (17.1 Years) @ 25°C <small>excluding battery and power supply</small>		tbd	tbd	tbd

¹ Please contact factory for minimum order quantities² Internal connector³ Depending on installation situation and interface connection. Please see user documentation.⁴ On all possible components (excl. TX2(i) 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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industrial computing