



IPC/COMPACTA2 - S

This fan less S 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 AI applications and guarantees long term availability.

- **24/7 continuous operation**
- **Extended AI Computing**
- **No moving parts**
- **Product lifecycle management**
- **Long term availability with fixed BOM**



Product Highlights

- Maintenance free
- Goldcap instead of battery backup
- No moving parts / passive cooling
- ARM CPU core
- Hardware watchdog
- Temperature supervision
- ESD- protection on all interfaces
- Long term availability (fixed BOM)
- Shock and vibration resistant

Product Features

- NVIDIA Pascal™ architecture GPU
- Dual-core Denver 2 64-bit CPU
- Quad-core ARM A57 Complex
- 8GB 128-bit LPDDR4 RAM soldered on board
- Socket for CFast
- Graphic resolution
- Ethernet, USB, Passive-CAN
- Optional WiFi extensions
- Aluminum & Stainless steel housing
- Protection class IP40
- Optional POE

Markets / Applications

- Industrial Automation
- Automated Guided Vehicle (AGV)
- Traffic control
- Transportation and vehicle construction
- Cleantech

Processor module / Performance			
NVIDIA Jetson TX2i 1.95GHz Clock - Quad Core GPU	•	•	
NVIDIA Jetson TX2 1.95GHz Clock - Quad Core GPU			•
Memory / Storage			
Data Cache Size	2MB	2MB	2MB
8GB RAM DDR4L soldered on board	51.2 GB/s	51.2 GB/s	58.2GB/s
eMMC on board	32GB	32GB	32GB
microSD Card socket	1	1	1
CFast socket with retention frame ²	1	1	1
Features			
Real time clock PC compatible with battery backup	•	•	•
Hardware Watchdog & Temperature supervisor	•	•	•
Intelligent power management (Ignition controller)	optional	optional	optional
Communication Interfaces			
Graphic interface	DisplayPort 1.2	DisplayPort 1.2	DisplayPort 1.2
Dual Channel LVDS ²	1	1	1
USB version 3.0 (Type A)	2	2	2
USB version 2.0 OTG (micro USB Type AB)	1	1	1
Ethernet 10/100/1000Mbit (RJ45)	1	1	1
Ethernet 10/100/1000Mbit (I210-IT) (RJ45)	3	3	3
POE 10/100/1000Mbit (RJ45)	optional	optional	optional
RS232 / RS422/485 ESD protected (DSUB9)	optional	optional	optional
Active/passive-CAN ESD protected, isolated (DSUB9)	1	1	1
Mini PCIe socket ²	1	1	1
I2C bus ²	•	•	•
Optional Wireless Functions			
Cellular 4G Module (GSM/UMTS/LTE) u-blox or Sierra Wireless - M2M only!	optional	optional	optional
Dual SIM Support (microSIM)	•	optional	optional
Positioning Wireless Module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U Module incl. acceleration sensor	optional	optional	optional
Acceleration / Motion Sensor STMicroelectronics ISM330DLC	•	•	•
Wireless LAN & Bluetooth (BCM4354)	optional	optional	•
Technical Data			
Dimensions w174 x h47 x d127 mm (housing without mounting bracket)	•	•	•
Wall or DIN Rail mounting	•	•	•
Net weight in gram	~950	~950	~950
Input voltage 9 ... 30VDC non-isolated	•	•	•
Current consumption typ. in mA @ 24V without Add-Ins, idle	~1040	~1040	~1040
Power consumption typ. in Watt @ 24V without Add-Ins, idle	~25	~25	~25
Environmental Conditions			
Operating temperature ³	-40°C ... +70°C	-40°C ... +70°C	-25°C ... +60°C
Storage temperature -40 ... +85°C	•	•	•
Protection standard: IP40	•	•	•
Shock: designed to meet EN60068-2-27	•	•	•
Vibration: designed to meet EN60068-2-6	•	•	•
EMC according to EN-55032/55035	•	•	•
Safety according to IEC/EN62368	•	•	•
Radio and Telecommunication: Designed to meet RED	•	•	•
MTBF ~200 000h (22.8 Years) @ 25°C excluding battery and S2 power supply	tbd	tbd	tbd

¹ Please contact factory for minimum order quantities

² Internal connector

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

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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