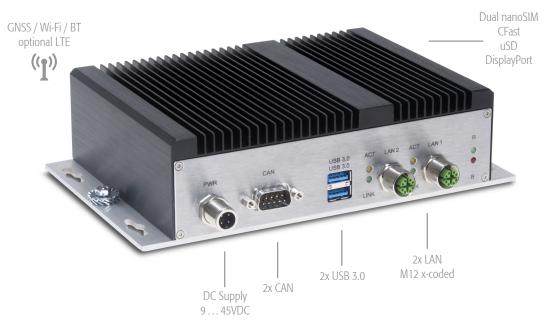


Al Vehicle Computer COMPACT Al Vehicle Series

Intelligent Machine Learning Unit with NVIDIA Jetson TX2



IPC/COMPACT A2 - RS

This fanless 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 AI applications and guarantees long term availability.

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

NVIDIA. Linux for Tegra (L4T)

Product Highlights

Maintenance free 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

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, Passive or Active CAN Aluminum & Stainless steel housing Protection class IP40

Markets / Applications

Automated Guided Vehicles (AGV) Transportation Cleantech

CE

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Your partner for reliable embedded computer solutions.

		Order Code	IPC/RSA2120-A1035
rocessor module / Performance			
VIDIA Jetson TX2 256-core NVIDIA Pascal™ GPU			•
VIDIA Jetson TX2i 256-core NVIDIA Pascal™ GPU			on request
VIDIA Jetson TX2 4GB 256-core NVIDIA Pascal™ GPU			on request
ual-Core NVIDIA Denver 2 64-Bit CPU and Quad-Core ARM® Cortex®-A57 MPCore			•
I Performance			1.3 TOPs
1emory / Storage			
ata Cache Size			2MB
ch x 32-bit LPDDR4 RAM soldered on board			8GB
MMC 5.1 Flash Storage on board			32GB
nicroSD Card socket ²			1
Fast socket with retention frame ²			1
eatures			
nertial measurement unit (IMU) STMicroelectronics ISM330DLC			•
eal time clock (RTC) with battery backup Renata CR2450N (540mAh)			•
Communication Interfaces			
iraphic interface			DisplayPort 1.2
SB version 3.0	(Type A)		
ternal USB version 2.0 OTG behind the cover	(micro USB Type AB)		2
thernet 10/100/1000Mbit (1x native, 1x l210-IT)	(M12 female x-coded)		2
ctive/passive-CAN ESD protected, isolated	(1x DSUB9)		2
5232 / RS422/485 ESD protected	(DSUB9)		optional
lini PCle socket ²			1
C bus ²			•
			•
IIPI CSI-2 Camera Interface ²			•
Vireless Connectivity			
ellular Module (LTE/UMTS/GSM) with GNSS positioning functionality 1	(3x SMA)		on request
/ireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 4.1	(2x RP-SMA)		•
echnical Data			
imensions w174 x h52 x d127 mm (housing without mounting bracket)			•
et weight in gram			~950
on isolated input voltage, with Ignition controller, reverse polarity protected	(M12 4P male a-coded)		9 45VDC
urrent consumption typ. in mA @ 24V without Add-Ins, idle			~400
ower consumption typ. in Watt @ 24V without Add-Ins, idle			~10
nvironmental Conditions			
perating temperature ³			−25°C +70°C
orage temperature			−25°C +80°C
tended operating temperature –40°C +70°C			with TX2i
tended storage temperature –40°C +85°C			with TX2i
otection standard			IP40
N/ECE R10 (E-mark) certification			on request
onformal coating ⁴			on request
nock (designed to meet)			EN60068-2-27
ibration (designed to meet)			EN60068-2-64
MC/EMI-Conformity			EN55032 / EN5503
afety (designed to meet)			EN62368-1
adio and Telecommunication (designed to meet)			RED
TBF @ 25°C ambient according to Telcordia SR-332, Environment GB, excluding battery			~700 000h
			, 00 00011

² Internal connector

³ 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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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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