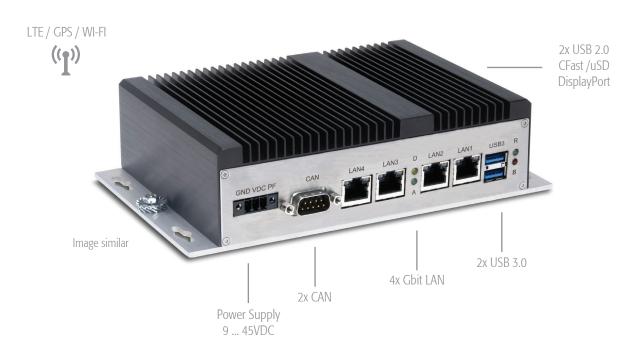
Intelligent Machine Learning Unit with NVIDIA Jetson TX2(i)



IPC/COMPACTA2 - S

This fanless 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 Al 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
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

Markets / Applications

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



		Order Code	IPC/SAZIZU-TBD
Processor module / Performance			
NVIDIA Jetson TX2 256-core NVIDIA Pascal™ GPU			•
NVIDIA Jetson TX2i 256-core NVIDIA Pascal™ GPU			optional
NVIDIA Jetson TX2 4GB 256-core NVIDIA Pascal™ GPU			on request
Dual-Core NVIDIA Denver 2 64-Bit CPU and Quad-Core ARM® Cortex	®-A57 MPCore		•
Al Performance			1.3 TOPs
Memory / Storage			
Data Cache Size			2MB
4ch x 32-bit LPDDR4 RAM soldered on board			8GB
eMMC 5.1 Flash Storage on board			32GB
microSD Card socket ²			1
CFast socket with retention frame ²			1
Features			
Real time clock PC compatible with battery backup Renata CR2477N (950m/	Ah)		•
Real time clock PC compatible with Goldcap backup (48h)			optional
Hardware Watchdog & Temperature supervisor			•
ntelligent power management			•
Communication Interfaces			
Graphic interface			DisplayPort 1.2
JSB version 3.0	(Type A)		2 Displayr of 1.2
nternal USB version 2.0 OTG behind the cover	(micro USB Type AB)		1
Ethernet 10/100/1000Mbit (1x native, 3x I210-IT)	(RJ45)		4
active/passive-CAN ESD protected, isolated	(1x DSUB9)		2
S232 / RS422/485 ESD protected	(DSUB9)		optional
Aini PCle socket ²	(03003)		1 T
2C bus ²			•
Buzzer			•
MIPI CSI-2 Camera Interface ²			•
Wireless Connectivity			
Cellular Module (LTE/UMTS/GSM) with GNSS positioning functionality	Sierra Wireless MC7455 - M2M onlyl	(3x SMA)	optional
Dual SIM Support (nanoSIM to mPCle slot ²)	Sicila Wileless Me7455 Miziki Only:	(SX SIVII I)	•
nertial measurement unit (IMU) STMicroelectronics ISM330DLC			•
Vireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth	4 1	(2x RP-SMA)	•
Technical Data		(ZKIN SIVILY)	
Dimensions w174 x h52 x d127 mm (housing without mounting bracket)			
Net weight in gram			~950
ver weight in graffi Non isolated input voltage, with Ignition controller, reverse polarity pro	stacted		9 45VDC
Current consumption typ. in mA @ 24V without Add-Ins, idle	necieu		~400
Power consumption typ. in Watt @ 24V without Add-Ins, idle			~10
			**10
Environmental Conditions			2596 .6596
Operating temperature ³			−25°C +65°C
storage temperature			-25°C +80°C
extended operating temperature –40°C +70°C			with TX2i
ixtended storage temperature –40°C +85°C			with TX2i
Protection standard: IP40			•
Conformal coating ⁴			tbd
hock: EN60068-2-27 / EN61373			•
/ibration: EN60068-2-64 / EN61373			•
MI-Conformity EN-50121-3-2			•
Safety according to EN62368-1			•
Radio and Telecommunication: Designed to meet RED			•
MTBF ~150 000h (17.1 Years) @ 25°C excluding battery			tbd
lease contact factory for minimum order quantities			
nternal connector Depending on installation situation and interface connection. Please see user de			

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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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)

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Version 0.4 | April 2020

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