

Al Rugged Computer

COMPACT AI Rugged Vehicle Series

Intelligent Machine Learning Unit with NVIDIA Jetson AGX Xavier



RPC/COMPACT RML A3 Series

This fanless RPC COMPACT-A3 generation is based on the NVIDIA Jetson AGX Xavier processor module and offers a wide range of highly integrated interface options.

The ultra rugged and uncompromising design allows the use in the most demanding AI applications on mobile systems as well as in outdoor applications with harsh environmental conditions and guarantees long-term availability.

- 24/7 continuous operation
- · Extended AI Computing
- Power Over Ethernet (PoE)
- **IP67 Protection**
- Shock and vibration resistant



Product Highlights

Ultra rugged

Sealed housing (protection class IP67) Maintenance free Goldcap or battery RTC backup No moving parts / passive cooling ARM CPU core Hardware watchdog Temperature supervision ESD- protection on all interfaces Long term availability (fixed BOM)

Product Features

512-core NVIDIA Volta™ GPU with 64 Tensor Cores 8-Core ARM v8.2 64-bit NVIDIA Carmel CPU 32GB 256-Bit LPDDR4x RAM soldered on board Socket for CFast Ethernet, USB, Passive or Active CAN Power over Ethernet Rugged M12 connectors Milled aluminum housing

Markets / Applications

Construction Vehicles Transportation Agriculture Automated Guided Vehicles (AGV)

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Processor module / Porform

Order Code RPC/RMLA3K22-A202S1 RPC/RMLA3K22-B202S1

sor Cores	•	•
	32 TOPs	32 TOPs
	4MR	4MB
		32GB
		32GB
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		48h
	optional	optional
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	DisplayPort 1.2	DisplayPort 1.2
(Type A)	2	2
(micro USB Type AB)	1	1
	2	2
	4	4
,	optional	2
		optional
,		optional
(M12 a coaca remaie)	1	1
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	•	•
	on request	on request
	on request	on request
(2CMA)		
(2X SMA)		•
(2. CMA)		
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(2x RP-SMA)	•	•
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(1x SMA)	optional	optional
	w250 x h105 x d170	w250 x h105 x d170
	~4400	~4450
(M12 5P male a-coded)	9 36VDC	9 36VDC
	~15	~15
	-25°C +55°C	−25°C +55°C
		−25°C +80°C
	25 C 100 C	23 C 100 C
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	on request	on request
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4-0)		•
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	optional	optional
optional interfaces	optional •	optional •
	(micro USB Type AB) (M12 female x-coded) (M12 female x-coded) (M12 a-coded female) (M12 a-coded female) (M12 a-coded female) (M12 a-coded female)	32 TOPs

Please 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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Depending on installation situation, power consumption and interface connection. Please see user documentation.
 On all possible components (excl. NVIDIA Xavier Module, connectors and wireless devices)



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