

Syslogic RPC/RMLA4NX16-B202S-02 Get Quote





Rugged Computer RML A4NX

Computer Vision Edge Unit with NVIDIA Jetson Orin NX (16GB)



Product Highlights 24/7 continuous operation IP67 protection, extended temperature range Power ignition controller High shock and vibration resistance Power Over Ethernet (PoE+)





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	Order Code	RPC/RMLA4NX16-A202S-02 ^{1,6}	RPC/RMLA4NX16-B202S-02
Processor module / Performance			
NVIDIA Jetson Orin NX (16GB RAM) 1024-core NVIDIA Ampere GPU with 32 Tensor Cores 8-core NVIDIA Arm® Cortex A78AE 64-bit CPU		\checkmark	\checkmark
NVIDIA Jetson Orin NX (8GB RAM) 1024-core NVIDIA Ampere GPU with 32 Tensor Cores 6-core NVIDIA Arm® Cortex A78AE 64-bit CPU		on request ¹	on request ¹
Al Performance		100 TOPs	100 TOPs
Memory / Storage			
28-Bit LPDDR5 (102,4 GB/s) RAM soldered on board		16GB	16GB
1.2 2280 Key M socket (for NVMe SSD) ^{6, an SSD is <u>required</u>, no internal eMMC storage}	ge available	240GB	240GB
nicroSD Card socket ²		1	1
eatures		1	1
Inertial measurement unit (IMU) STMicro ISM330DHCXTR		\checkmark	\checkmark
Real time clock (RTC), with battery backup Renata CR2477 (950 mAh)		~	~
Communication Interfaces			
DisplayPort 1.4a @ 8K30 behind the service cover (rear)		1	1
nternal USB version 2.0 behind the service cover (rear), for device flashing and SSH access		1	1
SB version 2.0 behind the service cover (rear)	(Туре А)	2	2
SB version 3.1 (5 Gbit/s) with dustcap	(Туре А)	1	1
hernet 10/100/1000 BASE-T (1× native, 1× 1210-1T)	(M12 female, x-coded)	2	2
ower over Ethernet - IEEE802.3at 10/100/1000Mbit SE - Power sourcing equipment, producing 48VDC out	(M12 female x-coded)	4	4
AN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isolat	ed (M12 female, a-coded)	1	1
AN 2.0B only (active/passive), CAN FD supported, isolated	(M12 female, a-coded)	1	1
igital I/O's, current sinking, isolated 12/24VDC	(M12 male, a-coded)	4in / 2out ⁵	4in / 2out ⁵
erial RS232	(M12 male, a-coded)	1	1
Ini PCIe socket ^{2, PCIe bandwith shared with PoE ports}		1	1
ISB version 2.0 ¹	(M12 female, a-coded)	on request	on request
Wireless Connectivity			
ellular 4G Module (LTE/UMTS/GSM) with GNSS Sierra Wireless EM75		none	3 × SMA
Wireless LAN (Wi-Fi 6/6E) 802.11ax/ac/a/b/g/n dual-band 2x2 MIMO & Bluetooth 5.2 Intel Ax210		none	2 × RP-SMA
Cellular 5G module (4G/3G fallback) with GNSS		on request	on request
ligh precision multiband GNSS module with optional heading sup	oport ¹ u-blox ZED-F9P/F9R	on request	on request
Fechnical Data			
imensions excl. mounting holes [mm]		w250 × h100 × d170	w250 × h100 × d170
Net weight [gram]		~3600	~3650
Non-isolated input voltage with ignition controller and RP protection (M12 male, a-coded)		9 45VDC	9 45VDC
Typical power consumption under load with few peripherals attached (25W Mode) ³		35W	35W
Software / OS			
VIDIA JetPack SDK – <u>Jetson Linux</u> (Ubuntu based)		\checkmark	\checkmark
nvironmental Conditions			
perating temperature ^{3, *Cold startup max25°C}		−40°C* +70°C	-40°C* +70°C
torage temperature		-40°C +85°C	-40°C +85°C
gress protection standard according to EN60529		IP67	IP67
onformal coating 4		on request	on request
Shock according to ISO 15003 (designed to meet)		50g peak acc. (11ms)	50g peak acc. (11ms)
Vibration according to ISO 15003 (designed to meet)		2g (10 – 350Hz)	2g (10 – 350Hz)
EMC-Conformity		EN55032 / EN55035	EN55032 / EN55035
afety (designed to meet)		EN62368-1	EN62368-1
Radio and Telecommunication (designed to meet)		n/a	RED
estimated MTBF @ 25°C ambient according to Telcordia SR-332, Environment GB, excluding battery and SSD		~tbd	~tbd
ases contact factory for minimum order quantities ternal connector epends on installation situation interface connection and device load. Please see user			

Internation connector
Depends on installation situation interface connection and device load. Please see user documentation. Cold startup maximal -25°C
On all possible components (excl. Xavier NX module, connectors and wireless devices)
The six total digital (//os are each configurable as either output or input via software.
The product must be ordered with an SSD, use the following order codes: RPC/RMLA4NX16-x2025-02(240GB), -05(480GB), -10(960GB), -20(1920GB)



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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