Syslogic RPC RS A4NX Get Quote







Rugged Computer RS 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 Resistance to chemicals





© 2024 Syslogic AG



🗊 syslogic

Rugged Computer **RS A4NX**

	Order Code	RPC/RSA4NX16-A102S-0215	RPC/RSA4NX16-B102S-
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			
128-Bit LPDDR5 (102,4 GB/s) RAM soldered on board		16GB	16GB
M.2 2280 Key M socket (for NVMe SSD) ^{6, an SSD is <u>required</u>, no internal eMMC}	storage available	240GB	240GB
Features			
Inertial measurement unit (IMU) STMicro ISM330DHCXTR		\checkmark	√
Real time clock (RTC), with battery backup Renata CR2477 (950 m	nAh)	√	√
Communication Interfaces DisplayPort 1.4a @ 8K30 behind the service cover (rear)		1	1
DISPIGYPORT 1.4G @ 8K30 behind the service cover (rear) Internal USB version 2.0 behind the service cover (rear), for device flashing and SSH ac		1	1
USB version 2.0 behind the service cover (rear)	(Type A)	2	2
JSB version 2.0 Gbind the served cover (teal) JSB version 3.1 (5 Gbit/s) with dustcap	(Туре А)	1	1
Ethernet 10/100/1000 BASE-T (1× native, 1× 1210-IT)	(M12 female, x-coded)	2	2
CAN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isc		1	1
Digital I/O's, current sinking, isolated ^{12/24VDC}	(M12 male, a-coded)	4in / 2out	4in / 2out
Serial RS232 ^{1, instead of Digital I/Os}	(M12 male, a-coded)	on request	on request
JSB version 2.0 ^{1, instead of Digital I/Os}	(M12 female, a-coded)	on request	on request
nertial measurement unit (IMU) STMicro ISM330DHCXTR	(iniz ioniaio, a coaca)	1	1
Wireless Connectivity			
Cellular 4G Module (LTE/UMTS/GSM) with GNSS Sierra Wireless EM7590 (Dual nano SIM support)		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
High precision multiband GNSS module with optional heading	support ¹ u-blox ZED-F9P/F9R	on request	on request
Technical Data			
Dimensions excl. mounting holes [mm]		w196 × h66 × d165	w196 × h66 × d165
Net weight [gram]		~2300	~2350
Non-isolated input voltage with ignition controller and RP prote	ection (M12 male, a-coded)	9 45VDC	9 45VDC
Power consumption ³		~tbd	~tbd
Software / OS			
NVIDIA JetPack SDK – <u>Jetson Linux</u> (Ubuntu based)		\checkmark	\checkmark
Environmental Conditions			
Operating temperature ^{3, *Cold startup max25°C}		-40°C* +70°C	-40°C* +70°C
Storage temperature		-40°C +85°C	−40°C +85°C
ngress protection standard according to EN60529		IP67	IP67
Conformal 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
Safety (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, e Please contact factory for minimum order quantities Internal connector	xcluding battery and SSD	~tbd	~tbd

¹Please contact factory for minimum are quantumes
²Internal connector
³ Depends on installation situation interface connection and device load. Please see user documentation. Cold startup maximal -25°C
⁴ On all possible components (excl. Orin NX module, connectors and wireless devices)
⁵ The product must be ordered with an SSD, use the following order codes: RPC/RSA4NXI6-x102S-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.

v1.0 | February 2024



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.

US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28 Business Registration Number: 07699660