Rugged Computer **RS A4NX**

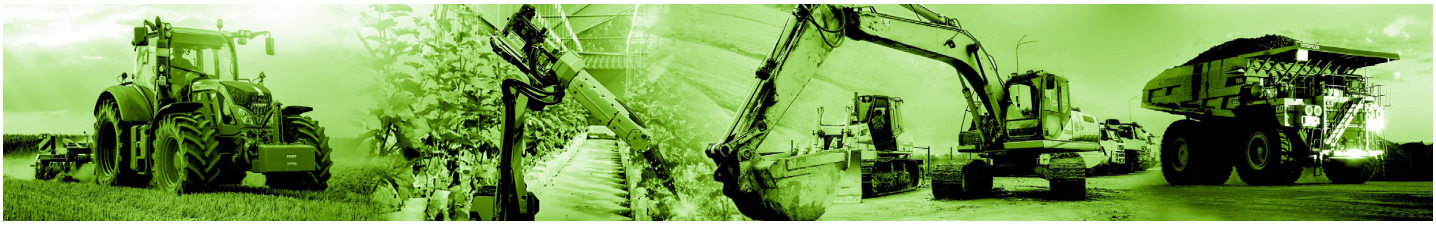
Computer Vision Edge Unit with NVIDIA Jetson Orin NX (16GB)

Product Highlights

24/7 continuous operation
IP67 protection, extended temperature range
Power ignition controller
High shock and vibration resistance
Resistance to chemicals

ACCESSORIES

CE UK CA



Rugged Computer **RS A4NX**

		Order Code	RPC/RSA4NX16-A102S-02[1,5]	RPC/RSA4NX16-B102S-02[1,5]
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		✓	✓
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]
AI 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 required, no internal eMMC storage available]			240GB	240GB
Features				
Inertial measurement unit (IMU) STMicro ISM330DHCXTR			✓	✓
Real time clock (RTC), with battery backup Renata CR2477 (950 mAh)			✓	✓
Communication Interfaces				
DisplayPort 1.4a @ 8K30 [behind the service cover (rear)]			1	1
Internal USB version 2.0 [behind the service cover (rear), for device flashing and SSH access only]	(micro USB Type AB)		1	1
USB version 2.0 [behind the service cover (rear)]	(Type A)		2	2
USB version 3.1 (5 Gbit/s) with dustcap	(Type A)		1	1
Ethernet 10/100/1000 BASE-T (1× native, 1× I210-IT)	(M12 female, x-coded)		2	2
CAN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isolated	(M12 female, a-coded)		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
USB version 2.0 [1, instead of Digital I/Os]	(M12 female, a-coded)		on request	on request
Inertial measurement unit (IMU) STMicro ISM330DHCXTR			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 protection	(M12 male, a-coded)		9 ... 45VDC	9 ... 45VDC
Power consumption [3]			~tbd	~tbd
Software / OS				
NVIDIA JetPack SDK – Jetson Linux (Ubuntu based)			✓	✓
Environmental Conditions				
Operating temperature [3, *Cold startup max. -25°C]			−40°C* ... +70°C	−40°C* ... +70°C
Storage temperature			−40°C ... +85°C	−40°C ... +85°C
Ingress 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, excluding battery and SSD]			~tbd	~tbd

[1] Please contact factory for minimum order quantities
[2] Internal 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/RSA4NX16-x102S-**02**(240GB), **-05**(480GB), **-10**(960GB), **-20**(1920GB)

For support and further information
support@syslogic.ai
or www.syslogic.ai

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Assured Systems

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