NVIDIA PREFERRED PARTNER

syslogic

Rugged Computer **RSL A4AGX**

Computer Vision Edge Unit with NVIDIA Jetson AGX Orin

Product Highlights

- 24/7 continuous operation
- IP67, IP69 protection, extended temperature range
- Power ignition controller
- High shock and vibration resistance
- Resistance to chemicals

ACCESSORIES

CE UKCA

Rugged Computer RSL A4AGX

	Order Code	RPC/RSLA4AGX32-B102S[1]	RPC/RSLA4AGX32-C102S[1]
Processor module / Performance			
NVIDIA Jetson **AGX Orin 32GB** 1792-core Ampere GPU with 56 Tensor Cores 8-core NVIDIA Arm® Cortex A78AE CPU		✓	✓
NVIDIA Jetson **AGX Orin 64GB** 2048-core Ampere GPU with 64 Tensor Cores 12-core NVIDIA Arm® Cortex A78AE CPU		see page 3	see page 3
NVIDIA Jetson **AGX Orin Industrial** 2048-core Ampere GPU with 64 Tensor Cores (ECC) 12-core NVIDIA Arm® Cortex A78AE CPU		on request [1]	on request [1]
Memory / Storage			
256-bit LPDDR5 RAM (204.8GB/s) soldered on module		32GB	32GB
eMMC 5.1 Flash Storage on board		64GB	64GB
M.2 2280 Key M socket (for 240GB – 2TB NVMe SSD)		1	1
Features			
Inertial measurement unit (IMU) STMicro ISM330DHCXTR		✓	✓
Real time clock (RTC), with battery backup Renata CR2477 (950 mAh)		✓	✓
Communication Interfaces			
DisplayPort 1.4a @ 8K60 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 10GbE (10GBASE-T)	(M12 female, x-coded)	1	1
Ethernet 1GbE (100/1000 BASE-T)	(M12 female, x-coded)	1	1
CAN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isolated	(M12 female, a-coded)	2	2
GPIOs (Digital I/O's), current sinking, isolated 12/24VDC	(M12 male, a-coded)	4in / 2out	4in / 2out
Serial RS232	(M12 male, a-coded)	1	1
Full size mini PCIe socket		1	1
Wireless Connectivity			
Cellular 4G Module (LTE/UMTS/GSM) with GNSS Sierra Wireless EM7590 (Dual nano SIM support)		3 × SMA	none
Wireless LAN 802.11ax/ac/a/b/g/n (Wi-Fi 6E) dual-band 2x2 MIMO Intel AX210		2 × RP-SMA	none
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]		w250 × h75 × d170	w250 × h75 × d170
Net weight [gram]		~3000	~3000
Non-isolated input voltage with ignition controller and RP protection	(M12 male, L-coded)	9 ... 45VDC	9 ... 45VDC
Power consumption [3]		~tbd	~tbd
Software / OS			
NVIDIA JetPack SDK – Jetson Linux (Ubuntu based)		✓	✓
Environmental Conditions			
Operating temperature [3]		–25°C ... +65°C	–25°C ... +65°C
Storage temperature		–25°C ... +80°C	–25°C ... +80°C
Ingress protection standard according to EN60529		IP67, IP69	IP67, IP69
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)		4.1g (10 – 350Hz)	4.1g (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] Depending on installation situation and interface connection. Please see user documentation.
[4] On all possible components (excl. AGX Orin module, connectors and wireless devices)

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

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Rugged Computer RSL A4AGX

Order Code		RPC/RSLA4AGX64-B102S[1]	RPC/RSLA4AGX64-C102S[1]
Processor module / Performance			
NVIDIA Jetson **AGX Orin 64GB** 2048-core Ampere GPU with 64 Tensor Cores 12-core NVIDIA Arm® Cortex A78AE CPU		✓	✓
NVIDIA Jetson **AGX Orin Industrial** 2048-core Ampere GPU with 64 Tensor Cores (ECC) 12-core NVIDIA Arm® Cortex A78AE CPU		on request [1]	on request [1]
Memory / Storage			
256-bit LPDDR5 RAM (204.8GB/s) soldered on module		64GB	64GB
eMMC 5.1 Flash Storage on board		64GB	64GB
M.2 2280 Key M socket (for 240GB – 2TB NVMe SSD)		1	1
Features			
Inertial measurement unit (IMU) STMicro ISM330DHCXTR		✓	✓
Real time clock (RTC), with battery backup Renata CR2477 (950 mAh)		✓	✓
Communication Interfaces			
DisplayPort 1.4a @ 8K60 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 10GbE (10GBASE-T)	(M12 female, x-coded)	1	1
Ethernet 1GbE (100/1000 BASE-T)	(M12 female, x-coded)	1	1
CAN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isolated	(M12 female, a-coded)	2	2
GPIOs (Digital I/O's), current sinking, isolated 12/24VDC	(M12 male, a-coded)	4in / 2out	4in / 2out
Serial RS232	(M12 male, a-coded)	1	1
Full size mini PCIe socket		1	1
Wireless Connectivity			
Cellular 4G Module (LTE/UMTS/GSM) with GNSS Sierra Wireless EM7590 (Dual nano SIM support)		3 × SMA	none
Wireless LAN 802.11ax/ac/a/b/g/n (Wi-Fi 6E) dual-band 2x2 MIMO Intel AX210		2 × RP-SMA	none
Cellular 5G module (4G/3G fallback) with GNSS		on request	on request
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EMC-Conformity		EN55032 / EN55035	EN55032 / EN55035
Safety (designed to meet)		EN62368-1	EN62368-1
Radio and Telecommunication (designed to meet)		n/a	RED
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