





# Rugged Computer RS A4NA

Computer Vision Edge Unit with NVIDIA Jetson Orin Nano



image similar

#### **Product Highlights**

24/7 continuous operation GMSL2 camera inputs with PoC IP67 protection, extended temperature range Power ignition controller High shock and vibration resistance









© 2023 Syslogic Datentechnik AG





### Rugged Computer RS A4NA

Order Code RPC/RSA4NA4-M112S-02 $^{1,5}$  RPC/RSA4NA4-N112S-02 $^{1,5}$ 

Processor module / Performance			
NVIDIA Jetson Orin Nano   (4GB RAM) 512-core NVIDIA Ampere GPU with 16 Tensor Cores 6-core NVIDIA Arm® Cortex A78AE 64-bit CPU  NVIDIA Jetson Orin Nano   (8GB RAM) 1024-core NVIDIA Ampere GPU with 32 Tensor Cores 6-core NVIDIA Arm® Cortex A78AE 64-bit CPU  Al Performance		✓	√
		on request <sup>1</sup>	on request <sup>1</sup>
		20 TOPs	20 TOPs
Memory / Storage			
PDDR5 RAM in SoC		4GB	4GB
NVMe SSD (M.2 2280) 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 1.2 @ 4K30 behind the service cover (rear)		1	1
nternal USB version 2.0 behind the service cover (rear), for device flashing and SSH access only	(micro USB Type AB )	1	1
JSB version 2.0 behind the service cover (rear)	(Type A)	2	2
thernet 10/100/1000 BASE-T (1× native, 1× 1210-1T)	(M12 female, x-coded)	2	2
BMSL2 camera inputs, with Power over Coax (PoC) 12VDC+/-5% otal max power for all ports combined: 9W   Bandwith: 5Gbps / port	(Fakra-Z, IP67)	4	4
CAN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isolated <sup>1</sup>	(M12 female, a-coded)	1	1
oigital I/O's, current sinking, isolated (12/24VDC) 1, instead of CAN	(M12 male, a-coded)	on request <sup>6</sup>	on request <sup>6</sup>
Serial RS232 <sup>1, instead of CAN</sup>	(M12 male, a-coded)	on request	on request
Wireless Connectivity			
Cellular 4G Module (LTE/UMTS/GSM) with GNSS Sierra Wireless EM7590 (Dual nano SIM support)		3 × SMA	on request
Wireless LAN (Wi-Fi 6/6E) 802.11ax/ac/a/b/g/n dual-band 2x2 MIMO & Bluetooth 5.2 Intel AX210		2 × RP-SMA	on request
High precision multiband GNSS module with optional heading support 1, u-blox ZED-F9P/F9R		on request	on request
Fechnical Data			
Dimensions excl. mounting holes [mm]		w196 × h66 × d165	w196 × h66 × d165
Net weight [gram]		~2500	~2400
Non-isolated input voltage with ignition controller and RP protection	(M12 male, a-coded)	9 45VDC	9 45VDC
Power consumption <sup>3</sup>		~tbd	~tbd
Software / OS			
IVIDIA JetPack SDK – <u>Jetson Linux</u> (Ubuntu based)		√	✓
Environmental Conditions			
Operating temperature <sup>3</sup>		−25°C +70°C	−25°C +70°C
torage temperature		−25°C +85°C	−25°C +85°C
ngress protection standard according to EN60529		IP67	IP67
Conformal coating <sup>4</sup>		on request	on request
hock according to ISO 15003 (designed to meet)		50g peak acc. (11ms)	50g peak acc. (11m
(ibration according to ISO 15003 (designed to meet)		2g (10 – 350Hz)	2g (10 – 350Hz)
MC-Conformity (designed to meet)		EN55032 / EN55035	EN55032 / EN5503
Safety (designed to meet)		EN62368-1	EN62368-1
Radio and Telecommunication (designed to meet)	and one	n/a	n/a
estimated MTBF @ 25°C ambient according to Telcordia SR-332, Environment GB, excluding battery ease contact factory for minimum order quantities	ana sso	~tbd	~tbd

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.

v0.6 | December 2023



## **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