

Al Railway Computer COMPACT Al Railway Series

Computer Vision Edge Unit with NVIDIA Jetson AGX Xavier



IPC/COMPACT A3 - RSL

This fanless RSL COMPACT-A3 generation is based on the Jetson AGX Xavier processor module and offers a wide range of interface options.

The robust and uncompromising industrial design allows the implementation in the most demanding AI railway and rolling stock applications and guarantees long term availability.

- 24/7 continuous operation
- Extended AI Computing
- Railway approved EN50155
- Passively cooled, no moving parts
- · Long term availability with fixed BOM

NVIDIA. Linux for Tegra (L4T)

Product Highlights

No moving parts / passively cooled Shock and vibration resistant Galvanically isolated railway power supply Long term availability (fixed BOM) Maintenance free Inertial measurement unit (IMU) Goldcap instead of battery backup for RTC

Product Features

512-Core NVIDIA Volta™ GPU with 64 Tensor Cores 8-Core ARM v8.2 64-bit NVIDIA Carmel CPU 32GB 256-Bit LPDDR4x RAM soldered on board Storage options: NVMe M.2 2280 & CFast Ethernet, USB, Passive or Active CAN LTE, GNSS and WiFi options Aluminum & Stainless steel housing

Markets

Railway (rolling stock) Transportation

CE

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Your partner for reliable embedded computer solutions.



Order Code IPC/RSLA3K22-A105S1 IPC/RSLA3K22-C101S1

Al Railway Computer

			-
Processor module / Performance			
NVIDIA Jetson AGX Xavier (JAX) 512-Core NVIDIA Volta™ GPU with 64 Tensor Cores		•	•
8-Core ARM v8.2 64-bit NVIDIA Carmel CPU			
Al Performance		32 TOPs	32 TOPs
Memory / Storage			
Data L3 Cache Size		4MB	4MB
256-Bit LPDDR4x RAM soldered on board		32GB	32GB
eMMC 5.1 Flash Storage on board		32GB	32GB
microSD Card socket		1	1
M.2 2280 Key M socket (for NVMe SSD) ²		1	1
CFast socket with retention frame ²		1	1
Features			
Inertial measurement unit (IMU) STMicroelectronics ISM330DHCXTR		on request	on request
Real time clock (RTC) with goldcap backup (charge holds typ. 48h)		•	•
Communication Interfaces			
Graphic interface		DisplayPort 1.2	DisplayPort 1.2
USB version 3.1 (10 Gbit/s)	(Type A)	2	2
Internal USB version 2.0 OTG behind the cover	(micro USB Type AB)	1	1
Ethernet 10/100/1000 BASE-T	(M12 female x-coded)	2	2
CAN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isolated	(DSUB9)	2	2
Power over Ethernet - IEEE802.3at 10/100/1000Mbit requires taller housing: h95mm	. ,		
Serial RS232 / RS422/RS485 requires taller housing: h103mm	(RJ45 / M12 female x-coded)	on request	on request
Digital I/O's, 24/DC requires taller housing: h103mm	(DSUB9)	on request	on request on request on request
Analog input ¹ , 0-20mA or -10+10V / 0 30V (16bit resolution Accuracy: +/-0.1%), requires taller housing: h95mm	(up to 4 inputs & 4 outputs)	on request	on request
Analog Input', 0-20MA or -10+10V / 0 30V (tour reduiter redu	(up to 4 inputs)	on request	
MIPI CSI-2 / GMSL2 / FPDLinkIII Camera interface 1, requires taller housing: h95mm			1 full-size / 1 half-size
		on request	on request
Wireless Connectivity			
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup		3x SMA	none
Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218		2x RP-SMA	none
High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P may require taller housing deput	ending on final SKU	on request	none
Cellular 5G Module (4G/3G fallback) with GNSS		on request	on request
Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R		on request	on request
Technical Data			
Dimensions [mm] (housing, incl. mounting plate)		w256 x h67.5 x d127	w256 x h67.5 x d127
Net weight [gram]		~2300	~2250
Isolated input voltage with ignition controller and reverse polarity protection (M12 5P	male a-coded)	16.8 45VDC	16.8 45VDC
Interruption of voltage supply time: EN50155 Class S2		>10ms	>10ms
Power consumption ³		depends on power mo	de (15W, 30W, MAXN)
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		IP20	IP20
Conformal coating ⁴		PCX	PCX
UN/ECE R10 (E-mark) certification ⁵		on request	on request
Shock		IEC/EN 61373	IEC/EN 61373
Vibration		IEC/EN 61373	IEC/EN 61373
EMC-Conformity		EN 50121-3-2	EN 50121-3-2
Safety (designed to meet)		EN 50121-3-2(IEC 62236-3-2)	EN 50121-3-2(IEC 62236-3-2)
Fire protection		EN 45545-2 HL3	EN 45545-2 HL3
Radio and Telecommunication (designed to meet)		RED	none
MTBF @ 25°C ambient according to Telcordia SR-332, Environment GB, excluding battery		~325 000h	~435 000h
¹ Please contact factory for minimum order quantities		525 00011	135 00011
rease contact rectory for minimum order quantities			

Please contact factory for minimum order quantities

² Internal connector

⁴On all possible components (excl. NVIDIA Xavier Module, connectors and wireless devices)

⁵ UNVECE-R10 is the hype-approval test for European automotive electronics. It includes a variety of testing including RF immunity and emissions, transient immunity and emissions. ⁶ These LTE and Wi-Fi modules have replaced the previously used Sierra Wireless MC7455 and SparkLAN WPEB-263ACNI(BT) due to these modules going EOL (previous products: IPC/RSLA3K22-A1015)

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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Syslogic Datentechnik AG Täfernstrasse 28 CH-5405 Baden Dättwil

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For further information and support: info@syslogic.com support@syslogic.com www.syslogic.com

+41 56 200 90 40 +49 7741 9671-420

Switzerland (Headquarters) Germany and Austria





Order Code IPC/RSLA3K21-A105E1 IPC/RSLA3K21-C101E1

Processor module / Performance			
WIDIA Jetson AGX Xavier Industrial 512-Core NVIDIA Volta™ GPU (ECC) with 64 Tensor	Cores	•	•
3-Core ARM v8.2 64-bit NVIDIA Carmel CPU			
Dual Arm® Cortex®-R5 in lockstep (Safety Cluster Engine)		•	•
AI Performance (INT8)		30 TOPs	30 TOPs
Memory / Storage			
Data L3 Cache Size		4MB	4MB
256-Bit LPDDR4x ECC RAM soldered on board		32GB	32GB
eMMC 5.1 Flash Storage on board		64GB	64GB
nicroSD Card socket		1	1
M.2 2280 Key M socket (for NVMe SSD) ²		1	1
Γ Fast socket with retention frame ²		1	1
Features			·
nertial measurement unit (IMU) STMicroelectronics ISM330DHCXTR		on request	on request
Real time clock (RTC) with goldcap backup (charge holds typ. 48h)		not possible	not posible
Communication Interfaces		пот роззіліс	посрозые
		DisplayPort 1.2	DisplayPort 1.2
Graphic interface	(Turse A.)	DisplayPort 1.2	DisplayPort 1.2
JSB version 3.1 (10 Gbit/s)	(Type A)	2	2
nternal USB version 2.0 OTG behind the cover	(micro USB Type AB)	<u> </u>	1
Ethernet 10/100/1000 BASE-T	(M12 female x-coded)	2	2
CAN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isolated	(DSUB9)	2	2
Power over Ethernet - IEEE802.3at 10/100/1000Mbit requires taller housing: h95mm	(RJ45 / M12 female x-coded)	on request	on request
Serial RS232 / RS422/RS485 requires taller housing: h103mm	(DSUB9)	on request	on request
Digital I/O's, 24VDC requires taller housing: h103mm	(up to 4 inputs & 4 outputs)	on request	on request
Analog input ¹ , 0-20mA or -10+10V / 0 30V (16bit resolution Accuracy: +/- 0.196), requires taller housing: h95mm	(up to 4 inputs)	on request	on request
Mini PCIe socket 2 - used for extensions depending on configuration		1 full-size / 1 half-size	1 full-size / 1 half-size
MIPI CSI-2 / GMSL2 / FPDLinkIII Camera interface ^{1, requires taller housing: h95mm}		on request	on request
Wireless Connectivity			
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup		3x SMA	none
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Nireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218	6	3x SMA 2x RP-SMA	none
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P may require table housing depe	6		
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Nireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218 High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P may require table hoosing deper Cellular 5G Module (4G/3G fallback) with GNSS	6	2x RP-SMA	none
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P may require table housing depe	6	2x RP-SMA on request	none none
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Nireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218 High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P may require table hoosing deper Cellular 5G Module (4G/3G fallback) with GNSS Nireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R	6	2x RP-SMA on request on request	none none on request
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Nireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218 High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P may require table hoosing depe Cellular 5G Module (4G/3G fallback) with GNSS Nireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data	6	2x RP-SMA on request on request	none none on request
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Nireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218 High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P may require table hoosing deper Cellular 5G Module (4G/3G fallback) with GNSS Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate)	6	2x RP-SMA on request on request on request	none none on request on request
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Nireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218 High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P may requer table hoosing deper Cellular 5G Module (4G/3G fallback) with GNSS Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram]	6	2x RP-SMA on request on request on request w256 x h67.5 x d127	none none on request on request w256 x h67.5 x d127
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Nireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218 High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P meyrequire table hooting deper Cellular 5G Module (4G/3G fallback) with GNSS Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Vet weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P	6 nding on final SKU	2x RP-SMA on request on request on request w256 x h67.5 x d127 ~2300	none none on request on request w256 x h67.5 x d127 ~2250
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myrequere table housing deper- Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2	6 nding on final SKU	2x RP-SMA on request on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms	none none on request on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myrequere table housing deper- Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³	6 nding on final SKU	2x RP-SMA on request on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC	none none on request on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WWX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P mayrequire table boarding deper- Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Vet weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN)
Cellular 4G Module (LTE/ÚMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WWX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P mayrequire table booking deper- Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Operating temperature, complies with EN50155 class OT4 ³	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN)
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WWX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P meyrequire table boarding deper- Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Vet weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Diperating temperature, complies with EN50155 class OT4 ³	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod -40°C +70°C -40°C +85°C	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WWX621E 4 figh Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P mayrequire table booking deper- Cellular 5G Module (4G/3G fallback) with GNSS Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Fechnical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Diperating temperature, complies with EN50155 class OT4 ³ Storage temperature ngress protection standard according to EN60529	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod -40°C +70°C -40°C +85°C	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX6218 High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myreque take hoosing days Cellular 5G Module (4G/3G fallback) with GNSS Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Diperating temperature, complies with EN50155 class OT4 ³ Storage temperature ngress protection standard according to EN60529 Conformal coating ⁴	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod -40°C +70°C -40°C +85°C IP20 PCX	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20 PCX
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WWX621E 4 tigh Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P merequire table tooxing deper- Cellular 5G Module (4G/3G fallback) with GNSS Nireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Fechnical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Diperating temperature ngress protection standard according to EN60529 Conformal coating ⁴ JN/ECE R10 (E-mark) certification ⁵	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod -40°C +70°C -40°C +85°C IP20 PCX on request	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20 PCX on request
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myrequere table hoosing daya Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Diperating temperature, complies with EN50155 class OT4 ³ Storage temperature ngress protection standard according to EN60529 Conformal coating ⁴ JN/ECE R10 (E-mark) certification ⁵ Shock	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myrequere table hoosing dope Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Diperating temperature, complies with EN50155 class OT4 ³ Storage temperature ngress protection standard according to EN60529 Conformal coating ⁴ JN/ECE R10 (E-mark) certification ⁵ Shock <i>Vi</i> bration	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373 IEC/EN 61373	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373 IEC/EN 61373
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myrequire take hoosing dape Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Deparating temperature, complies with EN50155 class OT4 ³ Storage temperature ngress protection standard according to EN60529 Conformal coating ⁴ JN/ECE R10 (E-mark) certification ⁵ Shock /ibration EMC-Conformity	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mo >10ms depends on power mo -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373 IEC/EN 61373 EN 50121-3-2	none none on request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20 PCX 0 request IEC/EN 61373 IEC/EN 61373 EN 50121-3-2
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myreque table hoosing data Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Diperating temperature, complies with EN50155 class OT4 ³ Storage temperature ngress protection standard according to EN60529 Conformal coating ⁴ JN/ECE R10 (E-mark) certification ⁵ Shock /ibration EMC-Conformity Safety (designed to meet)	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mo >10ms depends on power mo -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373 IEC/EN 61373 EN 50121-3-2	none none non request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373 IEC/EN 61373 EN 50121-3-2(EC 62256-32)
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myrequire take hoosing depo Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Deparating temperature, complies with EN50155 class OT4 ³ Storage temperature ngress protection standard according to EN60529 Conformal coating ⁴ JN/ECE R10 (E-mark) certification ⁵ Shock /ibration EMC-Conformity Safety (designed to meet) Fire protection	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mod >10ms depends on power mod Power mod >10ms depends on power mod >10ms depends on p	none none non request 0 request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20 PCX 0 request IEC/EN 61373 IEC/EN 61373 EN 50121-3-2 EN 50121-3-2(EC 62256-32) EN 45545-2 HL3
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4-WWX ⁶ (Dual nano SIM sup Mireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetooth 5.0 Emwicon WMX621E High Accuracy GNSS Positioning Module w/ RTK support ¹ u-blox ZED F9R / F9P myreque table hoosing data Cellular 5G Module (4G/3G fallback) with GNSS Mireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] solated input voltage with ignition controller and reverse polarity protection (M12 5P nterruption of voltage supply time: EN50155 Class S2 Power consumption ³ Environmental Conditions Diperating temperature, complies with EN50155 class OT4 ³ Storage temperature ngress protection standard according to EN60529 Conformal coating ⁴ JN/ECE R10 (E-mark) certification ⁵ Shock /ibration EMC-Conformity Safety (designed to meet)	6 nding on final SKU	2x RP-SMA on request on request w256 x h67.5 x d127 ~2300 16.8 45VDC >10ms depends on power mo >10ms depends on power mo -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373 IEC/EN 61373 EN 50121-3-2	none none non request w256 x h67.5 x d127 ~2250 16.8 45VDC >10ms vde (15W, 30W, MAXN) -40°C +70°C -40°C +85°C IP20 PCX on request IEC/EN 61373 IEC/EN 61373 EN 50121-3-2(EC 62256-32)

² Internal connector

³ Depending on installation situation, interface connection and power mode. Please see user documentation.

⁶ These LTE and Wi-Fi modules have replaced the previously used Sierra Wireless Mc/2455 and SparkLAN WPEB-263ACNI(BT) due to these modules going EOL (previous products: IPC/RSLA3K21-A101E)

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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Syslogic Datentechnik AG Täfernstrasse 28 CH-5405 Baden Dättwil

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For further information and support: info@syslogic.com support@syslogic.com www.syslogic.com

+41 56 200 90 40 +49 7741 9671-420

Switzerland (Headquarters) Germany and Austria





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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