

Al Rugged Computer

COMPACT AI Rugged Vehicle Series

Computer Vision Edge Unit with NVIDIA Jetson AGX Xavier



RPC/COMPACT RSL A3 Series

This fanless RPC COMPACT-A3 generation is based on the NVIDIA Jetson AGX Xavier (Industrial) processor module and offers a wide range of highly integrated interface options. The ultra rugged and uncompromising design allows the use in the most demanding AI applications on mobile systems as well as in outdoor applications with harsh environmental conditions and guarantees long-term availability.

- 24/7 continuous operation
- Extended AI computing
- Wide temperature range -40°C ... +70°C
- Sealed housing with IP67 / IP69 protection
- · Shock and vibration resistant





Product Highlights

Ultra rugged Sealed housing, protection class IP67 & IP69 Maintenance free Power Ignition controller No moving parts / passively cooled Pressure equalization membrane

Resistance to chemicals Long term availability (fixed BOM)

Product Features

AGX Xavier or AGX Xavier Industrial
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
Rugged M12 connectors

Industries

Agriculture
Construction
Transportation
Off-Highway Vehicles
Heavy Industry
Autonomous Mobile Robots (AMRs)
Oudoor applications

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Your partner for reliable embedded computer solutions.



Order Code RPC/RSLA3K22-B104S¹ RPC/RSLA3K22-C102S¹ RPC/RSLA3K22-D102S¹

				IN GINDLIDINZZ DIOZD
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	32 TOPs
Memory / Storage				
Data L3 Cache Size		4MB	4MB	4MB
256-Bit LPDDR4x RAM soldered on board		32GB	32GB	32GB
eMMC 5.1 Flash Storage on board		32GB	32GB	32GB
microSD Card socket		1	1	1
M.2 2280 Key M socket (for NVMe SSD) ²		1	1	1
CFast socket with retention frame ²		1	1	1
Features				
Real time clock (RTC) with battery backup Renata CR2477 (950 mAh)		•		•
Inertial measurement unit (IMU) ¹ STMicroelectronics ISM330DHCXTR				
		on request	on request	on request
Communication Interfaces		D' D 110	D: 1 D 110	D: 1 D 112
Graphic interface behind the back service cover	(minne LICD Torres AD)	DisplayPort 1.2	DisplayPort 1.2	DisplayPort 1.2
Internal USB version 2.0 OTG behind the back service cover USB version 2.0 behind the back service cover	(micro USB Type AB)	1	I	1
	(Type A)	2	2	2
Ethernet 10/100/1000 Mbit BASE-T	(M12 female x-coded)	2	2	2
	(M12 female a-coded)	2	2	2
Power over Ethernet - IEEE802.3at 10/100/1000Mbit RMLA3 product	(M12 female x-coded)	on request	on request	on request
USB version 2.0	(M12 female a-coded)	on request	on request	none
Digital I/O's, 12/24VDC ¹	(M12 male a-coded)	on request	on request	4 in & 2 out
Analog input ¹ , 0-20mA or -10+10V / 0 30V (16bit resolution Accuracy: +/- 0.1%)	(up to 4 inputs)	on request	on request	none
Mini PCle socket 2 - used for extensions depending on configuration		1 full-size / 1 half-size	1 full-size / 1 half-size	1 full-size / 1 half-size
I2C bus ²		1	1	1
Wireless Connectivity				
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS ⁶ Telit LE910C4-WWX (Dual nano SIM support)		3x SMA	none	none
Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetoo	oth 5.0 ⁶ Emwicon WMX6218	2x RP-SMA	none	none
High Accuracy GNSS Positioning Module w/ RTK support 1 u-blox ZED F	High Accuracy GNSS Positioning Module w/ RTK support 1 12-blox 7FD FOR / FOP			
Cellular 5G Module (4G/3G fallback) with GNSS		on request	none	none
Cellular 5G Module (4G/3G fallback) with GNSS	⁵ 9R / F9P	on request on request	none on request	none on request
Cellular 5G Module (4G/3G fallback) with GNSS	⁻ 9R / F9P	· · · · · · · · · · · · · · · · · · ·		
Cellular 5G Module (4G/3G fallback) with GNSS Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R	F9R / F9P	on request	on request	on request
Cellular 5G Module (4G/3G fallback) with GNSS Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R Technical Data	⁵ 9R / F9P	on request on request	on request on request	on request on request
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, excl. mounting)	'9R / F9P	on request on request w250 x h75 x d170	on request on request w250 x h75 x d170	on request on request w250 x h75 x d170
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, excl. mounting) Net weight in gram		on request on request w250 x h75 x d170 ~3050	on request on request w250 x h75 x d170 ~3000	on request on request w250 x h75 x d170 ~3050
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller	(M12 5P male a-coded)	on request on request w250 x h75 x d170 ~3050 9 45VDC	on request on request w250 x h75 x d170 ~3000 9 45VDC	on request on request w250 x h75 x d170 ~3050 9 45VDC
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³		on request on request w250 x h75 x d170 ~3050 9 45VDC	on request on request w250 x h75 x d170 ~3000	on request on request w250 x h75 x d170 ~3050 9 45VDC
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions		on request on request w250 x h75 x d170 ~3050 9 45VDC depends o	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN)
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³		on request on request w250 x h75 x d170 ~3050 9 45VDC depends o	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30) -25°C +65°C	on request on request w250 x h75 x d170 ~3050 9 45VDC DW, MAXN) -25°C +65°C
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 300 -25°C +65°C -25°C +80°C	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653)		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30 -25°C +65°C -25°C +80°C IP67 / IP69	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69 on request	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30) -25°C +65°C -25°C +80°C IP67 / IP69 on request	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69 on request
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles, UN/ECE R10 (E-mark) ⁵		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69 on request on request	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles, UN/ECE R10 (E-mark) ⁵ Agriculture ISOBUS		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69 on request	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30 -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles, UN/ECE R10 (E-mark) ⁵ Agriculture ISOBUS Shock ISO 15003 / EN60068-2-64 (designed to meet)		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69 on request on request	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles, UN/ECE R10 (E-mark) ⁵ Agriculture ISOBUS Shock ISO 15003 / EN60068-2-64 (designed to meet) Vibration ISO 15003 / EN60068-2-64 (designed to meet)		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready •	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30 -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready •	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready •
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles, UN/ECE R10 (E-mark) ⁵ Agriculture ISOBUS Shock ISO 15003 / EN60068-2-64 (designed to meet) Vibration ISO 15003 / EN60068-2-64 (desigend to meet) EMI-Conformity		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles, UN/ECE R10 (E-mark) ⁵ Agriculture ISOBUS Shock ISO 15003 / EN60068-2-64 (designed to meet) Vibration ISO 15003 / EN60068-2-64 (designed to meet) EMI-Conformity Safety (designed to meet)		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035 EN62368-1	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035 EN62368-1	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035 EN62368-1
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, excl. mounting) Net weight in gram Non isolated input voltage, with Ignition controller reverse polarity protected Power consumption ³ Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles, UN/ECE R10 (E-mark) ⁵ Agriculture ISOBUS Shock ISO 15003 / EN60068-2-64 (designed to meet) Vibration ISO 15003 / EN60068-2-64 (desigend to meet) EMI-Conformity		on request on request w250 x h75 x d170 ~3050 9 45VDC depends of -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035	on request on request w250 x h75 x d170 ~3000 9 45VDC on power mode (15W, 30) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035	on request on request w250 x h75 x d170 ~3050 9 45VDC W, MAXN) -25°C +65°C -25°C +80°C IP67 / IP69 on request on request hardware ready • EN55032 / EN55035

¹ Please contact factory for minimum order quantities

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Switzerland (Headquarters) Germany and Austria



² Internal connector

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

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

SUN/ECE-R10 is the type-approval test for European automotive electronics. It includes a variety of testing including RF immunity and emissions, transient immunity and emissions.

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: RPC/RSLA3K22-B102S)



	Order Code	RPC/RSLA3K21-B104E ¹	RPC/RSLA3K21-C102E ¹	RPC/RSLA3K21-D102E ¹
Processor module / Performance				
NVIDIA Jetson AGX Xavier Industrial 512-Core NVIDIA Volta™ GPU 8-Core ARM v8.2 64-bit NVIDIA Carmel CPU	(ECC) with 64 Tensor Cores	•	•	•
Dual Arm® Cortex®-R5 in lockstep (Safety Cluster Engine)		•	•	•
Al Performance (INT8)		30 TOPs	30 TOPs	30 TOPs
Memory / Storage				
Data L3 Cache Size		4MB	4MB	4MB
QSPI NOR Flash Storage		64MB	64MB	64MB
256-Bit LPDDR4x ECC RAM soldered on board		32GB	32GB	32GB
eMMC 5.1 Flash Storage on board		64GB	64GB	64GB
microSD Card socket		1	1	1
M.2 2280 Key M socket (for NVMe SSD) ²		1	1	1
CFast socket with retention frame ²		1	1	1
Features				
Real time clock (RTC) with battery backup		not possible	not possible	not possible
Inertial measurement unit (IMU) ¹ STMicroelectronics ISM330DHCXTR		on request	on request	on request
Communication Interfaces				
Graphic interface behind the back service cover		DisplayPort 1.2	DisplayPort 1.2	DisplayPort 1.2
Internal USB version 2.0 OTG behind the back service cover	(micro USB Type AB)	1 1	1	1
USB version 2.0 behind the back service cover	(Type A)	2	2	2
Ethernet 10/100/1000 Mbit BASE-T	(M12 female x-coded)	2	2	2
CAN 2.0A / CAN 2.0B (active/passive), CAN FD supported, isolated	(M12 female a-coded)	2	2	2
Power over Ethernet - IEEE802.3at 10/100/1000Mbit RMLA3 product	(M12 female x-coded)	on request	on request	on request
USB version 2.0	(M12 female a-coded)	on request	on request	none
Digital I/O's, 12/24VDC ¹	(M12 male a-coded)	on request	on request	4 in & 2 out
Analog input ¹ , 0-20mA or -10+10V / 0 30V (16bit resolution Accuracy: +/- 0.1%)		on request	on request	none
Mini PCle socket 2 - used for extensions depending on configuration	(up to + iliputs)	1 full-size / 1 half-size	1 full-size / 1 half-size	1 full-size / 1 half-size
12C bus ²		1	1	1
Wireless Connectivity			,	
•	· · · · · · · · · · · · · · · · · · ·	7 CMA		
Cellular 4G Module (LTE/UMTS/GSM) with built-in GNSS Telit LE910C4		3x SMA	none	none
Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO & Bluetoc		2x RP-SMA	none	none
High Accuracy GNSS Positioning Module w/ RTK & optional heading	support 1 u-blox ZED F9R / F9P	on request	none	none
Cellular 5G Module (4G/3G fallback) with GNSS		on request	on request	on request
Wireless LAN (Wi-Fi 6) 802.11ax/ac/a/b/g/n 2T2R		on request	on request	on request
Technical Data				
Dimensions mm (housing, excl. mounting)		w250 x h75 x d170	w250 x h75 x d170	w250 x h75 x d170
Net weight in gram		~3050	~3000	~3050
Non isolated input voltage, with Ignition controller reverse polarity protected	(M12 5P male a-coded)	9 45VDC	9 45VDC	9 45VDC
ower consumption ³		depends on power mode (15W, 30W, MAXN)		
Environmental Conditions				
Operating temperature ³		−40°C +70°C	−40°C +70°C	−40°C +70°C
Storage temperature		−40°C +85°C	−40°C +85°C	−40°C +85°C
Ingress protection standard according to EN60529 (ISO 20653)		IP67 / IP69	IP67 / IP69	IP67 / IP69
Conformal coating ⁴		on request	on request	on request
Road vehicles, UN/ECE R10 (E-mark) 5		on request	on request	on request
Agriculture ISOBUS		hardware ready	hardware ready	hardware ready
Shock ISO 15003 / EN60068-2-64 (designed to meet)		•	•	•
Vibration ISO 15003 / EN60068-2-64 (designed to meet)		•	•	•
EMI-Conformity		EN55032 / EN55035	EN55032 / EN55035	EN55032 / EN55035
		EN55032 / EN55035 EN62368-1	EN55032 / EN55035 EN62368-1	EN55032 / EN55035 EN62368-1
EMI-Conformity Safety (designed to meet) Radio and Telecommunication (designed to meet)		EN55032 / EN55035 EN62368-1 RED	EN55032 / EN55035 EN62368-1 RED	EN55032 / EN55035 EN62368-1 RED

MTBF @ 25°C ambient according to Telcordia SR-332, Environment GB, excluding battery

Please contact factory for minimum order quantities

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~380 000

~415 000

~315 000

² Internal connector

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

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

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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.

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