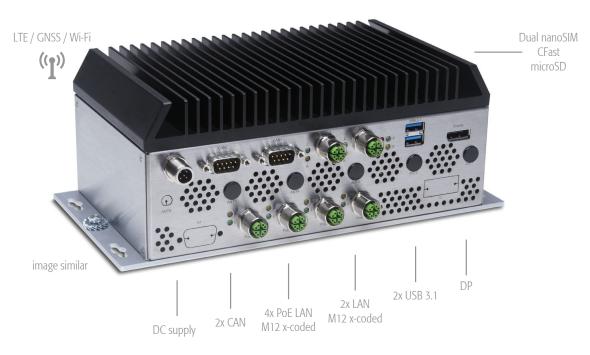


Al Vehicle Computer

COMPACT AI Vehicle Series

Intelligent Machine Learning Unit with NVIDIA Jetson AGX Xavier

preliminary



IPC/COMPACT A3 - RML

This fanless RML 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 mobile AI applications and guarantees long term availability.

- Power over Ethernet (PoE+), 48VDC out
- 24/7 continuous operation
- Extended AI Computing
- · Passively cooled, no moving parts
- · Long term availability with fixed BOM





Product Highlights

UNECE-R10 (E-mark) certified Positioning capabilities with dead reckoning Power ignition controller Each LAN interface has its own dedicated NIC Shock and vibration resistant LTE and Wi-Fi connectivity options No moving parts / passively cooled

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: M.2 2280 & CFast Ethernet, USB, CAN (J1939) LTE, GNSS and WiFi Aluminum & stainless steel housing

Industries

Automotive Automated Guided Vehicles (AGV) Transportation Robotics Off-highway vehicles

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Your partner for reliable embedded computer and display solutions.



| | Order Code | IPC/RMLA3K22-A203S ¹ | IPC/RMLA3K22-D203S |
|--|--|--|--|
| Processor module / Performance | | | |
| NVIDIA Jetson AGX Xavier (32GB) 512-Core NVIDIA Volta™ GPU with 64 8-Core ARM v8.2 64-bit NVIDIA Carmel CPU | Tensor Cores | • | • |
| Al Performance | | 32 TOPs | 32 TOPs |
| Memory / Storage | | 32 1013 | 32 1013 |
| 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 socket ² | | 1 | 1 |
| CFast socket with retention frame ² | | 1 | 1 |
| Features | | | |
| Inertial measurement unit (IMU) STMicroelectronics ISM330DHCXTR | | • | • |
| Real time clock (RTC) with battery backup Renata CR2477 (950 mAh) | | • | • |
| Real time clock (RTC) with goldcap backup (charge holds 48h) | | optional | optional |
| Hardware Watchdog & Temperature supervisor | | • | • |
| Buzzer | | • | • |
| Communication Interfaces | | | |
| Graphic interface | | DisplayPort 1.2 | DisplayPort 1.2 |
| USB version 3.1 | (Type A) | 2 | 2 |
| Internal USB version 2.0 OTG behind the cover | (micro USB Type AB) | 1 | 1 |
| Ethernet 10/100/1000Mbit | (M12 female x-coded) | 2 | 2 |
| Active/passive-CAN ESD protected, isolated | (DSUB9) | 2 | 2 |
| Power over Ethernet - IEEE802.3at 10/100/1000Mbit | (M12 female x-coded) | 4 | 4 |
| PSE - Power sourcing equipment, producing 48VDC out | (DCLIDe) | (total max power: 39W) | (total max power: 39W) |
| Serial RS232 / RS422/RS485 | (DSUB9) | optional | none |
| Digital I/O's, 24VDC | (up to 4 inputs & 4 outputs) | optional | none |
| Analog input, 16bit resolution, voltage input: -10+10V / 0 30V Accuracy: +, Analog input, 16bit resolution, current: 0-20mA | | optional | none |
| 12C bus ² | (4 inputs) | optional 1 | none 1 |
| MIPI CSI-2 / GMSL2 / FPDLinkIII Camera interface ¹ | | on request | on request |
| Wireless Connectivity | | on request | on request |
| | | | |
| | (full size miniPCle Slot) | 2v SMA | none |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! | (full size miniPCle Slot) | 2x SMA | none |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support | , | | |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m | nodule incl. acceleration sensor and gyroscope | 1x SMA | none |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support | nodule incl. acceleration sensor and gyroscope | | |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module | nodule incl. acceleration sensor and gyroscope | 1x SMA 2x RP-SMA | none none |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data | nodule incl. acceleration sensor and gyroscope | 1x SMA 2x RP-SMA optional | none none none |
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| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 | none none none w255 x h103 x d125 ~2300 |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC | none none none w255 x h103 x d125 ~2300 9 36VDC |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC | none none none w255 x h103 x d125 ~2300 9 36VDC |
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| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature 3 | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C | none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module ¹ u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature ³ Storage temperature | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C | none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature 3 Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating 4 Road vehicles 5 | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 | none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature 3 Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating 4 Road vehicles 5 Shock | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request | none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature 3 Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating 4 Road vehicles 5 Shock Vibration | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 | none none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module ¹ u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature ³ Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles ⁵ Shock Vibration EMI-Conformity | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 EN55032 / EN55035 | none none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 EN55032 / EN55035 |
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| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature 3 Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating 4 Road vehicles 5 Shock Vibration EMI-Conformity Safety (designed to meet) Radio and Telecommunication (designed to meet) | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 EN55032 / EN55035 EN62368-1 RED | none none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 EN55032 / EN55035 EN62368-1 RED |
| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module 1 u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature 3 Storage temperature Ingress protection standard according to EN60529 (ISO 20653) Conformal coating 4 Road vehicles 5 Shock Vibration EMI-Conformity Safety (designed to meet) Radio and Telecommunication (designed to meet) MTBF @ 25°C ambient according to Telcordia SR-332, Environment GB, excluding battery | nodule incl. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 EN55032 / EN55035 EN62368-1 | none none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 EN55032 / EN55035 EN62368-1 |
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| Cellular 4G Module (LTE/UMTS/GSM) Sierra Wireless MC7455- M2M only! with dual nano SIM support GNSS Positioning module (GPS, Galileo, Glonass, Beidou) u-blox NEO-M8U m Wireless LAN IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO Sparklan WPEB 263 High precision GNSS module ¹ u-blox ZED-F9P module Technical Data Dimensions [mm] (housing, incl. mounting plate) Net weight [gram] Non isolated input voltage with ignition controller and reverse polarity pro Power consumption typ. in Watt @ 24V without Add-Ins, idle Environmental Conditions Operating temperature ³ Storage temperature lngress protection standard according to EN60529 (ISO 20653) Conformal coating ⁴ Road vehicles ⁵ Shock Vibration EMI-Conformity Safety (designed to meet) Radio and Telecommunication (designed to meet) MTBF @ 25°C ambient according to Telcordia SR-332, Environment GB, excluding battery ¹ Please contact factory for minimum order quantities ¹ 4 On all possible of immunity and environment of the connection. | nodule ind. acceleration sensor and gyroscope SACNI(BT) (half size MiniPCle Slot) otection (M12 5P male a-coded) components (excl. NVIDIA Xavier Module, control | 1x SMA 2x RP-SMA optional w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 EN55032 / EN55035 EN62368-1 RED ~325 000h nectors and wireless devices) e electronics. It includes a varialso includes a requirement for | none none none w255 x h103 x d125 ~2300 9 36VDC ~15 -25°C +60°C -25°C +80°C IP20 on request UNECE-R10 (E-mark) EN60068-2-27 EN60068-2-64 EN55032 / EN55035 EN62368-1 RED ~435 000h |

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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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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