

| RTCU Product Matix 2022-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Product Name | Execution Architecture | Microprocessor | Encapsulation Dimensions Length x Width x Height in mm | Encapsulation Type | Ingress Protection | Platform SDK for user programs/modules in C | On-board Ethernet | On-board WLAN | On-board Bluetooth Classic and Bluetooth LE | LTE Cat.4 Full-Band Cellular Engine (Worldwide) | LTE Cat.4 Multi-Band Cellular Engine (EMEA) | LTE Cat.1 Multi-Band Cellular Engine (EMEA) | UMTS/HSPA engine (2G) | Quad Band GSM engine (2G) | Dual SIM-card support | General eSIM compatible | RF ISM Communication (868 Mhz) | Optional Wireless: M-Bus, Zigbee and KNX | GNSS receiver with GPS/GLONASS/QZSS/GALILEO | GNSS receiver with Unheathered Dead Reckoning (UDR) | Dual cellular antenna (internal/external) | Interactive Voice Response (IVR) /DTMF | Number of Digital Input | Number of Digital Output (Solid State) | Number of Digital Output (Relay) | Number of Analog Input | Analog Input Resolution | Number of Flex Input (configurable analog/digital) | Number of Analog Output | Analog Output Resolution | IEC62053-31 Input support (SO) | I/O Expandable with MODBUS modules | Headset connector | Digital Audio with Speaker/Microphone or Line-out | 1-Wire support (Button, Temperature sensors etc.) | Number of user DIP-Switches | Full motion sensor suite - accelerometer/gyroscope/magnetometer | Advanced 3D G-Sensor/Accelerometer | Number of RS232 channels | Number of dedicated RS485 channels | Number of RS485 channels (shared with RS232) | Wired M-Bus with optional Wireless M-Bus | Full CAN 2.0B Controller | USB Host port for expansion (GPS/LAN, Camera, RFID, etc) | Power Supply | Internal Battery back-up (nominal) | Advanced Power-management | SD-CARD with FAT32 file-system | Internal Flash-drive | RAM Memory | System Flash memory | Storage for automatic datalogger | Persistent Dataflash | High Performance Persistent Memory (FRAM / VFRAM) (No Write Endurance Limitations) | Garmin Fleet Management / Navigation Enabled | Navigation and Messaging Platform support | LCD Touch screen with 240x160 pixels | Graphical LCD-Display with keyboard | | | | |
| RTCU NX-200 | NX32L | Cortex-A5 32 Bit 500 MHz | 148 x 34 x 122 (w/o flange) | Aluminum | IP20 | • • • | • • • | • • • | • • • | | | | | | • • • | | | | • • • | • • • | | 5 | 4 | - | 2 | 12b | 4 | - | - | - | | • • • | | | | | | 2 | • • • | - | 2 | 1 | - | - | 2 | 2 | 8-36VDC | 2.6 Ah | • • • | up to 512 MB | 128 MB | 528 MB | up to 32 MB | 7.5 MB | 20 KB | • • • | - | - | - | - | | |
| RTCU NX-400 LE | NX32L | Cortex-A5 32 Bit 500 MHz | 160 x 89 x 54 | 9M DIN (plastic) | IP20 | • • • | • • • | • • • | • • • | | | | | | | | | | • • • | • • • | | 8 | 8 | - | 4 | 12b | - | 4 | 12b | • • • | - | • • • | 3 | - | - | 2 | 2 | - | - | 1 | 1 | 8-36VDC | 2 Ah | - | • • • | up to 512 MB | 128 MB | 528 MB | up to 32 MB | 7.5 MB | 20 KB | - | - | • • • | - | | | | | | | |
| RTCU NX-400 EVO | NX32L | Cortex-A5 32 Bit 500 MHz | 160 x 89 x 54 | 9M DIN (plastic) | IP20 | • • • | • • • | • • • | • • • | | | | | | | | | | • • • | • • • | | 8 | 8 | - | 4 | 12b | - | 4 | 12b | • • • | • • • | - | • • • | 3 | - | - | 2 | 2 | - | - | 1 | 1 | 8-36VDC | 2 Ah | - | • • • | up to 512 MB | 128 MB | 528 MB | up to 32 MB | 7.5 MB | 20 KB | - | - | • • • | - | | | | | | |
| RTCU NX-900 | NX32L | Cortex-A5 32 Bit 500 MHz | 130 x 180 x 50 | Plastic | IP65 | • • • | • • • | • • • | • • • | | | | | | | | | | • • • | • • • | | 5 | - | 4 | 4 | 12b | - | 4 | 12b | • • • | • • • | - | - | • • • | 3 | - | - | 2 | 2 | - | - | - | - | 8-36VDC 100-260VAC | 2 Ah | • • • | • • • | up to 512 MB | 128 MB | 528 MB | up to 32 MB | 7.5 MB | 20 KB | - | - | - | - | | | | | |
| RTCU NX-910 | NX32L | Cortex-A5 32 Bit 500 MHz | 130 x 180 x 50 | Plastic | IP65 | • • • | • • • | - | - | | | | | | | | | | • • • | • • • | | 5 | - | 4 | 2 | 12b | - | - | - | - | • • • | • • • | - | • • • | 3 | - | - | 2 | 2 | - | - | - | - | 8-36VDC 100-260VAC | 1 Ah | • • • | • • • | up to 512 MB | 128 MB | 528 MB | up to 32 MB | 7.5 MB | 20 KB | - | - | - | - | | | | | |
| RTCU LX4 pro | NX32L | Cortex-A7 32 Bit 1 GHz | 157 x 58 x 86 | M36 DIN (plastic) | IP20 | • • • | - | - | • • • | | | | | | | | | | • • • | • • • | | 8 | 8 | - | 4 | 12b | - | 2 | 10b | • • • | • • • | - | - | • • • | 3 | - | - | 1 | 2 | - | • • • | - | - | 8-36VDC | 2 Ah | • • • | • • • | up to 64 MB | 128 MB | 256 MB | up to 32 MB | 7.5 MB | 20 KB | - | - | - | • • • | | | | | |
| RTCU LX5 pro | NX32L | Cortex-A7 32 Bit 1 GHz | 105 x 35 x 85 | Plastic | IP30 | • • • | • • • | • • • | - | | | | | | | | | | • • • | • • • | | 3 | 4 | - | 3 | 12b | - | - | - | - | • • • | - | - | • • • | - | - | • • • | 1 | 1 | - | - | 1 | - | 8-36VDC | 2 Ah | • • • | • • • | up to 128 MB | 128 MB | 512 MB | up to 32 MB | 7.5 MB | 20 KB | • • • | • • • | - | - | | | | | |
| RTCU LX5 eco | NX32L | Cortex-A7 32 Bit 1 GHz | 105 x 35 x 85 | Plastic | IP30 | • • • | - | - | - | | | | • • • | - | - | | | | • • • | • • • | | 3 | 2 | - | - | 12b | 3 | - | - | - | - | • • • | - | - | • • • | - | - | • • • | 1 | 1 | - | - | 1 | - | 8-36VDC | 1 Ah | • • • | • • • | up to 64 MB | 128 MB | 512 MB | up to 32 MB | 7.5 MB | 20 KB | • • • | • • • | - | - | | | | |
| RTCU MX2 turbo LTE | NX32 | ARM7 32 Bit 48 MHz | 91 x 31 x 131 | Aluminum | IP30 | - | - | - | - | | | • • • | - | - | | • • • | • • • | | • • • | - | - | - | 5 | 4 | - | 2 | 12b | - | - | - | - | • • • | - | - | • • • | - | - | • • • | 2 | - | • • • | 2 | 1 | - | - | 1 | - | 8-36VDC | 2 Ah | • • • | • • • | 8 MB | 2 MB | 4.5 MB | 1 MB | 7.5 MB | 20 KB | • • • | • • • | - | - | |
| RTCU MX2 turbo LTE-U | NX32 | ARM7 32 Bit 48 MHz | 91 x 31 x 131 | Aluminum | IP30 | - | - | - | - | | | • • • | - | - | | • • • | • • • | | • • • | - | - | • • • | - | 5 | 4 | - | 2 | 12b | - | - | - | - | • • • | - | - | • • • | - | - | • • • | 2 | - | • • • | 2 | 1 | - | - | 1 | - | 8-36VDC | 2 Ah | • • • | • • • | 8 MB | 2 MB | 4.5 MB | 1 MB | 7.5 MB | 20 KB | • • • | • • • | - | - |
| RTCU MX2 warp with all on-demand options. | NX32 | ARM7 32 Bit 48 MHz | 91 x 31 x 131 | Aluminum | IP30 | - | - | - | - | | | • • • | - | - | | • • • | • • • | | • • • | - | - | • • • | - | 5 | 4 | - | 2 | 12b | - | - | - | - | • • • | • • • | - | • • • | 2 | - | • • • | 2 | 1 | - | - | 1 | - | 8-36VDC | 2 Ah | • • • | • • • | 8 MB | 2 MB | 4.5 MB | 1 MB | 7.5 MB | 20 KB | • • • | • • • | - | - | | | |
| RTCU CX1 warp 3G with all on-demand options. | X32 | ARM7 32 Bit 48 MHz | 92x 30 x 58 | Plastic | IP66 | - | - | - | - | | | • • • | - | - | | • • • | • • • | | • • • | - | - | • • • | - | 2 | 2 | - | 1 | 10b | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8-36VDC | 0.9 Ah | • • • | • • • | 4 MB | 1 MB | 2.2 MB | 1 MB | 3.5 MB | 8 KB | • • • | - | - | - | | | |
| RTCU CX1 warp-c 3G with all on-demand options. | X32 | ARM7 32 Bit 48 MHz | 92x 30 x 58 | Plastic | IP66 | - | - | - | - | | | • • • | - | - | | • • • | • • • | | • • • | - | - | • • • | - | 2 | 2 | - | 1 | 10b | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8-36VDC | 0.9 Ah | • • • | • • • | 4 MB | 1 MB | 2.2 MB | 1 MB | 3.5 MB | 8 KB | - | - | - | - |