**RTCU Product Matix 2019-7**

| Product Name | Microprocessor | Encapsulation Dimensions Length x Width x Height in mm | Encapsulation Type | Ingress Protection | NX32L Execution Architecture (Linux) | NX32 Execution Architecture | Platform SDK for user programs/modules in C | On-board Ethernet | On-board Wi-Fi | On-board Bluetooth Classic and Bluetooth LE | LTE Cat.4 Full-Band Cellular Engine (World-Wide) | LTE Cat.4 Multi-Band Cellular Engine (EMEA) | LTE Cat. M1 / Cat. NB1 (IoT) | UMTS/HSPA engine (3G) | Quad Band GSM engine (2G) | Rail GSM-R | Dual SIM-card support | Gemalto eSIM compatible | RF ISM Communication (868 Mhz) | Optional Wireless: M-Bus, Zigbee and KNX | GNSS receiver with GPS/GLONASS/QZSS/GALILEO | GNSS receiver with GPS/GLONASS/QZSS | 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 (S0) | I/O Expandable with MODBUS modules | Headset connector | Digitial Audio with Speaker/Microphone or Line-out | 1-Wire support (iButton, 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) | 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 | Zero-power mode | 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 |
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| RTCU NX-200 | 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 | 1 MB | 7.5 MB | 20KB | ● | ● | - | - |
| RTCU NX-400 | 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 | 1 MB | 7.5 MB | 20KB | - | - | ● | - |
| RTCU NX-400-LE | 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 | 1 MB | 7.5 MB | 20KB | - | - | ● | - |
| RTCU MX2 turbo | 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 | 20KB | ● | ● | - | - |
| RTCU MX2 turbo-2G | 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 | 20KB | ● | ● | - | - |
| RTCU MX2 encore *with all on-demand options.* | ARM7 32 Bit 48 MHz | 91 x 31 x 131 | Aluminum | IP30 | | ● | - | - | - | - | - | - | - | - | ● | - | ● | ● | - | - | | ● | - | ● | 5 | 4 | - | 2 | 12b | - | - | - | - | ● | - | - | ● | - | - | ● | 1 | 1 | - | 1 | - | 8-36VDC | 2 Ah | ● | - | - | 4 MB | 2 MB | 4.5 MB | 1 MB | 3.5 MB | 20KB | ● | - | - | - |
| RTCU CX1 warp 3G *with all on-demand options.* | ARM7 32 Bit 48 MHz | 92x 30 x 58 | Plastic | IP66 | | - | - | - | - | - | - | - | - | ● | - | - | - | ● | ● | - | | ● | - | - | 2 | 2 | - | 1 | 10b | - | - | - | - | - | - | - | ● | - | - | ● | 1 | - | - | - | - | 8-36VDC | 0.9 Ah | ● | - | ● | 4 MB | 1 MB | 2.2 MB | 1 MB | 3.5 MB | 8KB | ● | - | - | - |
| RTCU CX1 warp-c 3G with all on-demand options. | ARM7 32 Bit 48 MHz | 92x 30 x 58 | Plastic | IP66 | | - | - | - | - | - | - | - | - | ● | - | - | - | ● | ● | - | | ● | - | - | 2 | 2 | - | 1 | 10b | - | - | - | - | - | - | - | - | - | - | ● | - | - | - | 1 | - | 8-36VDC | 0.9 Ah | ● | - | ● | 4 MB | 1 MB | 2.2 MB | 1 MB | 3.5 MB | 8KB | - | - | - | - |
| RTCU DX4i pro-2G | ARM7 32 Bit 48 MHz | 157 x 58 x 86 | M36 DIN (plastic) | IP20 | | - | - | - | - | - | - | - | - | - | ● | - | - | ● | - | - | | - | - | ● | 8 | 8 | - | 4 | 12b | - | 4 | 10b | ● | ● | - | - | ● | 3 | - | - | 2 | 1 | 1 | 1 | - | 8-36VDC | 2 Ah | ● | - | ● | 4 MB | 1 MB | 2.2 MB | 1 MB | 3.5 MB | 8KB | - | - | - | ● |
| RTCU DX4i pro-3G | ARM7 32 Bit 48 MHz | 157 x 58 x 86 | M36 DIN (plastic) | IP20 | | - | - | - | - | - | - | - | - | ● | - | - | - | ● | - | - | | - | - | - | 8 | 8 | - | 4 | 12b | - | 4 | 10b | ● | ● | - | - | ● | 3 | - | - | 2 | 1 | 1 | 1 | - | 8-36VDC | 2 Ah | ● | - | ● | 4 MB | 1 MB | 2.2 MB | 1 MB | 3.5 MB | 8KB | - | - | - | ● |
| RTCU DX4i pro-LTE | ARM7 32 Bit 48 MHz | 157 x 58 x 86 | M36 DIN (plastic) | IP20 | | - | - | - | - | - | - | - | ● | ● | - | - | - | ● | - | - | | - | - | - | 8 | 8 | - | 4 | 12b | - | 4 | 10b | ● | ● | - | - | ● | 3 | - | - | 2 | 1 | 1 | 1 | - | 8-36VDC | 2 Ah | ● | - | ● | 4 MB | 1 MB | 2.2 MB | 1 MB | 3.5 MB | 8KB | - | - | - | ● |
| RTCU AX9 turbo | ARM7 32 Bit 48 MHz | 130 x 180 x 50 | Plastic | IP65 | | ● | ● | ● | - | - | - | - | - | ● | - | - | - | ● | ● | - | | - | ● | ● | 5 | - | 4 | 4 | 12b | - | 4 | 10b | ● | ● | - | - | ● | 3 | - | - | 2 | 1 | 1 | - | - | 8-36VDC 100-260VAC | 2 Ah | ● | - | ● | 8 MB | 2 MB | 4.5 MB | 1 MB | 7.5 MB | 20KB | ● | - | - | - |
| RTCU AX9 encore with RS485 on-demand option. | ARM7 32 Bit 48 MHz | 130 x 180 x 50 | Plastic | IP65 | | ● | - | - | - | - | - | - | - | - | ● | - | - | ● | - | - | | - | ● | ● | 5 | - | 4 | 2 | 12b | - | - | - | ● | ● | - | - | ● | 3 | - | - | 1 | - | 1 | - | - | 8-36VDC 100-260VAC | 1 Ah | ● | - | ● | 4 MB | 2 MB | 4.5 MB | 1 MB | 3.5 MB | 20KB | - | - | - | - |
| RTCU SX1 series | ARM7 32 Bit 48 MHz | 175 x 42/54 x 126 | Plastic | IP65 | | - | - | - | - | - | - | - | - | - | ● | ● | - | ● | ● | - | | - | ● | - | 2 | 2 | - | 2 | 10b | - | - | - | - | - | - | - | ● | 3 | - | ● | 1 | - | - | - | - | 8-36VDC | Up to 58 Ah | ● | ● | ● | 0.5 MB | 1 MB | 2.2 MB | 0.5 MB | 0.5 MB | 8KB | ● | - | - | - |