RTCU
Product Matix
2021-9

Product Name	Execution Architecture	Microprocessor	Encapsulation Dimensions Length x Width x Height in mm	Encapsulation Type	Ingress Protection
RTCU NX-200	NX32L	Cortex-A5 32 Bit 500 MHz	148 x 34 x 122 (w/o flange)	Aluminum	IP20
RTCU NX-400	NX32L	Cortex-A5 32 Bit 500 MHz	160 x 89 x 54	9M DIN (plastic)	IP20
RTCU NX-400 LE	NX32L	Cortex-A5 32 Bit 500 MHz	160 x 89 x 54	9M DIN (plastic)	IP20
RTCU NX-900	NX32L	Cortex-A5 32 Bit 500 MHz	130 x 180 x 50	Plastic	IP65
RTCU NX-910	NX32L	Cortex-A5 32 Bit 500 MHz	130 x 180 x 50	Plastic	IP65
RTCU LX4 pro	NX32L	Cortex-A7 32 Bit 1 GHz	157 x 58 x 86	M36 DIN (plastic)	IP20
RTCU LX5 pro	NX32L	Cortex-A7 32 Bit 1 GHz	105 x 35 x 85	Plastic	IP30
RTCU LX5 eco	NX32L	Cortex-A7 32 Bit 1 GHz	105 x 35 x 85	Plastic	IP30
RTCU MX2 turbo LTE	NX32	ARM7 32 Bit 48 MHz	91 x 31 x 131	Aluminum	IP30
RTCU MX2 turbo LTE-U	NX32	ARM7 32 Bit 48 MHz	91 x 31 x 131	Aluminum	IP30
RTCU MX2 warp with all on-demand options.	NX32	ARM7 32 Bit 48 MHz	91 x 31 x 131	Aluminum	IP30
RTCU CX1 warp 3G with all on-demand options.	X32	ARM7 32 Bit 48 MHz	92x 30 x 58	Plastic	IP66
RTCU CX1 warp-c 3G with all on-demand options.	X32	ARM7 32 Bit 48 MHz	92x 30 x 58	Plastic	IP66
RTCU AX9 encore with RS485 on-demand option.	NX32	ARM7 32 Bit 48 MHz	130 x 180 x 50	Plastic	IP65

Product Name	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 (3G)	Quad Band GSM engine (2G)	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 Untethered Dead Reckoning (UDR)	Dual cellular antenna (internal/external)	Interactive Voice Response (IVR) / DTMF
RTCU NX-200	•	•	•	•	•	-	-	-	-	•	•	-	-	•	-	-	•
RTCU NX-400	•	•	•	•	-	-	-	•	-	-	•	-	•	-	-	-	•
RTCU NX-400 LE	•	•	•	•	-	•	-	-	-	-	•	-	•	-	-	-	•
RTCU NX-900	•	•	•	•	•	-	-	-	-	-	•	•	-	•	-	-	•
RTCU NX-910	•	•	-	-	-	-	•	-	-	-	•	-	-	-	-	-	•
RTCU LX4 pro	•	•	-	-	•	-	-	-	-	-	•	-	-	-	-	-	•
RTCU LX5 pro	•	•	•	-	-	•	-	-	-	-	•	•	-	•	-	-	•
RTCU LX5 eco	•	-	-	-	-	-	•	-	-	-	•	•	-	•	-	-	•
RTCU MX2 turbo LTE	-	-	-	-	-	-	•	-	-	•	•	-	-	•	-	-	-
RTCU MX2 turbo LTE-U	-	-	-	-	-	-	•	-	-	•	•	-	-	-	•	-	-
RTCU MX2 warp	-	-	-	-	-	-	-	-	•	•	•	-	-	•	-	-	•
RTCU CX1 warp 3G	-	-	-	-	-	-	-	•	-	-	•	•	-	•	-	-	-
RTCU CX1 warp-c 3G	-	-	-	-	-	-	-	•	-	-	•	•	-	•	-	-	-
RTCU AX9 encore	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-	•	•

Product Name	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)	Wired M-Bus with optional Wireless M-Bus	Full CAN 2.0B Controller	USB Host port for expansion (GPS,LAN,Camera,RFID,etc)
RTCU NX-200	5	4	-	2	12b	4	-	-	-	•	-	•	•	2	•	-	2	1	-	-	2	2
RTCU NX-400	8	8	-	4	12b	-	4	12b	•	•	-	•	•	3	-	-	2	2	-	-	1	1
RTCU NX-400 LE	8	8	-	4	12b	-	4	12b	•	•	-	•	•	3	-	-	2	2	-	-	1	1
RTCU NX-900	5	-	4	4	12b	-	4	12b	•	•	-	-	•	3	-	-	2	2	-	-	-	-
RTCU NX-910	5	-	4	2	12b	-	-	-	•	•	-	-	•	3	-	-	2	2	-	-	-	-
RTCU LX4 pro	8	8	-	4	12b	-	2	10b	•	•	-	-	•	3	-	-	1	2	-	•	-	-
RTCU LX5 pro	3	4	-	3	12b	-	-	-	-	•	-	-	•	-	-	•	1	1	-	-	1	-
RTCU LX5 eco	3	2	-	-	12b	3	-	-	-	•	-	-	•	-	-	•	1	1	-	-	1	-
RTCU MX2 turbo LTE	5	4	-	2	12b	-	-	-	-	•	-	-	•	2	-	•	2	1	-	-	1	-
RTCU MX2 turbo LTE-U	5	4	-	2	12b	-	-	-	-	•	-	-	•	2	-	•	2	1	-	-	1	-
RTCU MX2 warp	5	4	-	2	12b	-	-	-	-	•	•	-	•	2	-	•	2	1	-	-	1	-
RTCU CX1 warp 3G	2	2	-	1	10b	-	-	-	-	-	-	-	•	-	-	•	1	-	-	-	-	-
RTCU CX1 warp-c 3G	2	2	-	1	10b	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	1	-
RTCU AX9 encore	5	-	4	2	12b	-	-	-	•	•	-	-	•	3	-	-	1	-	1	-	-	-

Product Name	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	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	8-36VDC	2 Ah	-	•	up to 512 MB	128 MB	528 MB	up to 32 MB	7.5 MB	20 KB	-	-	•	-
RTCU NX-400 LE	8-36VDC	2 Ah	-	•	up to 512 MB	128 MB	528 MB	up to 32 MB	7.5 MB	20 KB	-	-	•	-
RTCU NX-900	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	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	8-36VDC	2 Ah	•	•	up to 64 MB	128 MB	256 MB	up to 32 MB	7.5 MB	20 KB	-	-	-	•
RTCU LX5 pro	8-36VDC	2 Ah	•	•	up to 128 MB	128 MB	512 MB	up to 32 MB	7.5 MB	20 KB	•	•	-	-
RTCU LX5 eco	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	8-36VDC	2 Ah	•	•	8 MB	2 MB	4.5 MB	1 MB	7.5 MB	20 KB	•	•	-	-
RTCU MX2 turbo LTE-U	8-36VDC	2 Ah	•	•	8 MB	2 MB	4.5 MB	1 MB	7.5 MB	20 KB	•	•	-	-
RTCU MX2 warp	8-36VDC	2 Ah	•	•	8 MB	2 MB	4.5 MB	1 MB	7.5 MB	20 KB	•	•	-	-
RTCU CX1 warp 3G	8-36VDC	0.9 Ah	•	•	4 MB	1 MB	2.2 MB	1 MB	3.5 MB	8 KB	•	-	-	-
RTCU CX1 warp-c 3G	8-36VDC	0.9 Ah	•	•	4 MB	1 MB	2.2 MB	1 MB	3.5 MB	8 KB	-	-	-	-
RTCU AX9 encore	8-36VDC 100-260VAC	1 Ah	•	•	4 MB	2 MB	4.5 MB	1 MB	3.5 MB	20 KB	-	-	-	-