RTCU Product Matix 2025-8

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 BLE 5.3 (Bluetooth)	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)	Quad Band GSM engine (2G)	Dual SIM-card support	Gemalto eSIM compatible	RF ISM Communication (868 Mhz)	Optional Wireless: M-Bus, Zigbee and KNX	Dual-Band L1+L5 Multi-Constellation GNSS module	GNSS receiver with GPS/GLONASS/QZSS/GALILEO	GNSS receiver with Dead Reckoning (DR)	GNSS receiver with Untethered Dead Reckoning (UDR)	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	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 Accelerometer and Gyroscope	Advanced 3D Accelerometer	Number of RS232 channels	Number of dedicated RS485 channels	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	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	20 KB	●	●	-	-
RTCU NX-200 DR	**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	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	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	20 KB	-	-	-	-
RTCU LX2 pro	**NX32L**	Cortex-A7 32 Bit 1 GHz	97 x 35 x 132	Aluminum	IP30	●	-	-	●	-	●	-	-	-	●	●	-	-	●	-	-	-	●	6	4	-	2	12b	2	-	-	-	●	-	●	2	-	●	-	2	1	-	2	-	8-36VDC	2 Ah	●	-	Total: 4 GB	128 MB	512 MB	up to 32 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	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	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	20 KB	●	●	-	-
RTCU LX9 eco	**NX32L**	Cortex-A7 32 Bit 1 GHz	130 x 180 x 50	Plastic	IP65	●	-	-	●	-	-	-	●	-	-	●	-	-	-	-	-	-	●	5	-	4	2	12b	-	-	-	●	●	-	●	3	-	-	-	2	2	-	-	-	8-36VDC 100-260VAC	1 Ah	●	●	up to 64 MB	128 MB	512 MB	up to 32 MB	20 KB	-	-	-	-
RTCU MX2 turbo LTE	**NX32**	ARM7 32 Bit 48 MHz	97 x 35 x 132	Aluminum	IP30	-	-	-	-	-	-	-	●	-	●	●	-	-	-	●	-	-	-	5	4	-	2	12b	-	-	-	-	●	-	●	2	-		●	2	1	-	1	-	8-36VDC	2 Ah	●	●	8 MB	2 MB	4.5 MB	1 MB	20 KB	●	●	-	-
RTCU MX2 warp	**NX32**	ARM7 32 Bit 48 MHz	97 x 35 x 132	Aluminum	IP30	-	-	-	-	-	-	-	-	●	●	●	-	-	-	●	-	-	●	5	4	-	2	12b	-	-	-	-	●	-	●	2	-		●	2	1	-	1	-	8-36VDC	2 Ah	●	●	8 MB	2 MB	4.5 MB	1 MB	20 KB	●	●	-	-