

Comparison between RTCU LX2 pro and the RTCU MX2 turbo LTE

FEATURES	RTCU LX2 pro	RTCU MX2 turbo LTE
Execution Architecture:	NX32L (Linux based)	NX32
RTCU M2M Platform SDK for user programs/modules in C	✓	✗
Processor and Storage		
Processor	Cortex A7 @ 800 Mhz	ARM7 @ 48 Mhz
Hardware floating point	✓	✗
Performance	~700 DMIPS	~40 DMIPS
RAM	128 MB	2 MB
SD-CARD reader	✗	✓
Internal flash drive capacity	4 GB	4 MB
Datalogger capacity	Unlimited	1 MB
Security		
Embedded firewall/router	✓	✗
TLS/SSL support with full certificate management	✓	✗
RTCU Communication Hub - Secure connection	✓	✗
Hardware assisted encryption/authentication	✓	✗
Cellular Engine		
Technology	LTE Cat. 4 (4G)	LTE Cat. 1 (4G)
Geographical coverage	Worldwide	EMEA

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Audio system	Fully Digital	Analog
Wireless Communication		
Bluetooth LE 5.3	✓	✗
Optional: Zigbee and OpenThread	✓	✗
GNSS / GPS		
Dual-band, multi-constellation with optional UDR/ADR and RTK	✓	✗
Accuracy - Autonomous mode	1m CEP	2.5m CEP
Accuracy - RTK mode	Centimeter level	✗
Dual independent GNSS receivers	✓	✗
Sensors		
Gyroscope in addition to the Accelerometer	✓	✗
Digital and Analog Input / Output		
Number of digital inputs	6	5
Analog inputs range	0..10VDC / 0..30VDC	0..10VDC
Analog inputs accuracy	0.5% FSR @ 25C	1.5% FSR @ 25C
Wired Communication		
CAN Bus channels	2	1
Dedicated RS232 ports	2	1 + 1(shared)

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USB service port	High-speed USB	UART based
Power		
DC-Out	5V	3.3V
Mechanical		
GNSS connector	SMA(F)	SMB(F)
<i>Features that are common to both devices are not listed.</i>		