

# LX2M-Q40

## DATA SHEET of

### Universal Communicator



EBS Sp. z o.o.  
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Product name			Universal Communicator	
Model			LX2M-Q40	
Power supply parameters	Voltage supply		13.8V <sub>DC</sub> (acceptable: 12-14V <sub>DC</sub> )	
	Power consumption (average/max)		60mA/300mA @13.8V <sub>DC</sub>	
Modem	Variant		Quectel EG915U-LA	
	Manufacturer		Quectel Wireless Solutions Co., Ltd. Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China	
	Frequencies range	Uplink MS > BTS	LTE-FDD (Band 2)	1850 – 1910 MHz
			LTE-FDD (Band 3)	1710 – 1785 MHz
			LTE-FDD (Band 4)	1710 – 1755 MHz
			LTE-FDD (Band 5)	824 – 849 MHz
			LTE-FDD (Band 7)	2500 – 2570 MHz
			LTE-FDD (Band 8)	880 – 915 MHz
			LTE-FDD (Band 28)	703 – 748 MHz
			LTE-FDD (Band 66)	1710 – 1780 MHz
			GSM850	824 – 849 MHz
			EGSM900	880 – 915 MHz
			DCS1800	1710 – 1785 MHz
			PCS1900	1850 – 1910 MHz
		Downlink BTS > MS	LTE-FDD (Band 2)	1930 – 1990 MHz
			LTE-FDD (Band 3)	1805 – 1880 MHz
			LTE-FDD (Band 4)	2110 – 2155 MHz
			LTE-FDD (Band 5)	869 – 894 MHz
			LTE-FDD (Band 7)	2620 – 2690 MHz
			LTE-FDD (Band 8)	925 – 960 MHz
			LTE-FDD (Band 28)	758 – 803 MHz
			LTE-FDD (Band 66)	2110 – 2200 MHz
			GSM850	869 – 894 MHz
			EGSM900	925 – 960 MHz
			DCS1800	1805 – 1880 MHz
			PCS1900	1930 – 1990 MHz
	Transmitting Power (50Ω load)		LTE-FDD	Class 3 (23dBm ±2dB)
			GSM850	Class 4 (33dBm ±2dB)
			EGSM900	Class 4 (33dBm ±2dB)
			DCS1800	Class 1 (30dBm ±2dB)
			PCS1900	Class 1 (30dBm ±2dB)
	Receiving Sensitivity (typical)		LTE-FDD (Band 2)	-98.1dBm
			LTE-FDD (Band 3)	-98.2dBm
			LTE-FDD (Band 4)	-97.5dBm
			LTE-FDD (Band 5)	-97.4dBm
			LTE-FDD (Band 7)	-96.1dBm
			LTE-FDD (Band 8)	-97.5dBm
			LTE-FDD (Band 28)	-99.4dBm
			LTE-FDD (Band 66)	-97.9dBm

		GSM850	-108dBm
		EGSM900	-106.8dBm
		DCS1800	-107.5dBm
		PCS1900	-107.2dBm
Card supported		Nano SIM	
Transmission channels		GPRS, LTE-FDD, SMS	
Transmission security		AES encryption (GPRS, LTE-FDD, SMS)	
Simulated PSTN line		YES	
Protocols supported on the phone input		SIA, ContactID	
Inputs		4	
Inputs / Outputs		4 (configurable input or output)	
AC power detection input		Maximum voltage 25V <sub>ac</sub>	
Output functions (configurable)		<ul style="list-style-type: none"><li>• reaction to loss of cellular signal</li><li>• reaction to loss of connection to server</li><li>• reaction to incoming call from the stored number</li><li>• reaction to selected input</li></ul>	
Quantity of system events stored in history		5000	
Status LEDs (functions)		4 LEDs (cellular signal level, device status, DTMF communication)	
Configuration		Remote: GPRS, LTE-FDD, SMS	
		Local: from PC (required SP-PROG or MINI-PROG-BT programmer)	
Remote firmware update		YES	
Temperature range of working		0°C ... +49°C	
Humidity range of working		5% ... 93% (without condensation)	
Dimensions of the PCB		83mm x 50mm	
In the casing (optional)	SKU	LX2M-Q40U	
	Dimensions	90 x 60 x 22mm (3.54 x 2.36 x 0.87 inches)	
	Colour	White RAL 9003	
	Material	ABS	
In the blister (optional)	SKU	LX2M-Q41	
	Dimension	86 x 52 x 16mm (antenna socket protrudes 4mm outside of the blister)	
Accessories		Antenna GSM/LTE with 3m cable (AO-ALTE-G017LS)	