

**DATA SHEET of**  
Cellular/Ethernet transmitter EPX400-6C



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Product name		Cellular/Ethernet transmitter		
Type		EPX400-6C		
Power supply parameters	Voltage supply	18V <sub>AC</sub> (acceptable: 16-20V <sub>AC</sub> )		
	Power consumption (average / max)	156mA/235mA@18V <sub>AC</sub> and full charged battery		
Modem	Type	Cinterion EHS6		
	Manufacturer	Gemalto M2M GmbH St.-Martin-Str. 60 81541 München Germany		
	Frequencies range	Uplink MS > BTS	GSM850	824 – 849 MHz
			EGSM900	880 – 915 MHz
			GSM1800	1710 – 1785 MHz
			GSM1900	1850 – 1910 MHz
			UMTS800	830 – 840 MHz
			UMTS850	824 – 849 MHz
			UMTS900	880 – 915 MHz
			UMTS1900	1850 – 1910 MHz
		Downlink BTS > MS	UMTS2100	1920 – 1980 MHz
			GSM850	869 – 894 MHz
			EGSM900	925 – 960 MHz
			GSM1800	1805 – 1880 MHz
			GSM1900	1930 – 1990 MHz
			UMTS800	875 – 885 MHz
	RF output power @ ARP with 50Ω load	UMTS850	869 – 894 MHz	33 dBm ±2dB
		UMTS900	935 – 960 MHz	33 dBm ±2dB
		UMTS1900	1930 – 1990 MHz	30 dBm ±2dB
		UMTS2100	2110 – 2170 MHz	30 dBm ±2dB
		UMTS800	24 dBm +1/-3dB	
		UMTS850	24 dBm +1/-3dB	
UMTS900		24 dBm +1/-3dB		
UMTS1900		24 dBm +1/-3dB		
Receiver input sensitivity @ARP (min / typ)	UMTS2100	24 dBm +1/-3dB	-102 dBm / -109 dBm	
	GSM850	-102 dBm / -109 dBm		
	EGSM900	-102 dBm / -109 dBm		
	GSM1800	-102 dBm / -108 dBm		
	GSM1900	-102 dBm / -108 dBm		
	UMTS800	-104.7 dBm / -110 dBm		
	UMTS850	-104.7 dBm / -110 dBm		
	UMTS900	-103.7 dBm / -110 dBm		
UMTS1900	-104.7 dBm / -109 dBm			
UMTS2100	-106.7 dBm / -110 dBm			

Transmission channels	ETH, GPRS, EDGE, HSPA+, SMS, PSTN* *transparent, PSTN dialer required in a CP
Simulated PSTN line	YES
Protocols supported on the phone input	SIA, ContactID
Ethernet	- 10BaseT / 100Base - TX IEEE 802.3 compliant - speed and duplex auto-negotiation - auto-detection of correct cable connections (cross/straight)
Inputs	9 (NO/NC/EOL-NO/EOL-NC/DEOL-NO/DEOL-NC)
Outputs	2 (OC, max. load 100mA) 1 relay output (NO/NC, max. load 1A/30VDC or 0,5A/125VAC)
Output functions (ways of control)	- unavailable GSM / UMTS signal or ETH channel - GSM / UMTS jamming - full control via server or through SMS - in reaction on events and inputs
Serial interface	RS232 / RS485 (lines: RxD, TxD, RTS, CTS) transmission speed up to 115200bps
Quantity of system events stored in history	5000
GPRS/SMS transmission security	AES encryption
Status LEDs (functions)	4 LEDs (GSM signal level, device state, DTMF communication)
Configuration	Remote: GPRS, EDGE, HSPA+, SMS, CSD, ETHERNET cable via Web Browser Local: PC through RS232 (required cable: LX-PROG or SP-PROG, MINI-PROG-BT)
Remote firmware update	YES
Remote access to the control panels	YES
Backup battery connection	YES, lead-acid 12V
Charging module functions	- protection against reverse battery connection - AC failure signalization - low battery/no battery signalization - protection against short circuit battery output - polymer fuse
Battery charging current	max. 220mA
Threshold of signaling low battery voltage	11V <sub>DC</sub>
Temperature range of working	-10°C ... +55°C
Humidity range of working	5% ... 93% (without condensation)
Dimension	PCB: 159 x 73 x 35mm