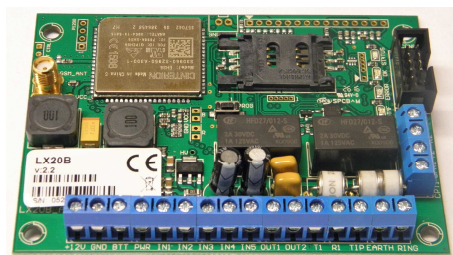


DATA SHEET of GSM/GPRS/SMS/UMTS transmitter LX20B-60



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Product name		GSM/GPRS/SMS/UMTS transmitter		
Type		LX20B-60		
Power supply parameters	Voltage supply	13,8V _{DC} (acceptable: 12-14V _{DC})		
	Power consumption (average / max)	95mA/125mA@13,8V _{DC}		
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
		Downlink BTS > MS	UMTS850	824 – 849 MHz
			UMTS900	880 – 915 MHz
			UMTS1900	1850 – 1910 MHz
			UMTS2100	1920 – 1980 MHz
			GSM850	869 – 894 MHz
	RF output power @ ARP with 50Ω load		EGSM900	925 – 960 MHz
			GSM1800	1805 – 1880 MHz
			GSM1900	1930 – 1990 MHz
			UMTS800	869 – 894 MHz
			UMTS850	869 – 894 MHz
UMTS900			935 – 960 MHz	
UMTS1900			1930 – 1990 MHz	
UMTS2100			2110 – 2170 MHz	
Receiver input sensitivity @ARP (min / typ)		GSM850	33 dBm ±2dB	
		GSM1800	30 dBm ±2dB	
		GSM1900	30 dBm ±2dB	
		UMTS800	24 dBm +1/-3dB	
		UMTS850	24 dBm +1/-3dB	
		UMTS900	24 dBm +1/-3dB	
		UMTS1900	24 dBm +1/-3dB	
		UMTS2100	24 dBm +1/-3dB	
		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 *transparent, PSTN dialer required in a CP	GPRS, EDGE, HSPA+, SMS, PSTN*
Simulated PSTN line	YES
Protocols supported on the phone input	SIA, ContactID
Inputs	5 (NO/NC/EOL-NO/EOL-NC/DEOL-NO/DEOL-NC)
Outputs	2 (OC, max. load 100mA)
Output functions (ways of control)	- loss of UMTS or GSM signal - UMTS or GSM jamming - full control via server or through SMS - in reaction on inputs
Serial interface	RS232 / RS485 (lines: RxD, TxD, RTS, CTS) transmission speed up to 115200bps
Quantity of system events stored in history	5000
Events buffer (GSM dialer function):	1000 events capacity
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 Local: PC through RS232 (required cable: LX-PROG or SP-PROG)
Remote firmware update	YES
Temperature range of working	-10°C ... +55°C
Humidity range of working	5% ... 93% (without condensation)
Dimension	PCB: 102 x 73 x 20mm