

MAIN FEATURES

- ❖ High sensitivity
- ❖ High dynamic range
- ❖ Low power consumption
- ❖ Compact size
- ❖ SNMP support



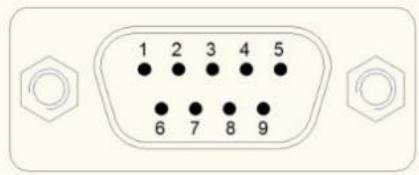
DESCRIPTION

This repeater is intended to be used in 400 MHz TETRA systems. It is a compact and reliable unit which can be effectively used to cover areas that cannot be economically covered by base stations. It is a very economical solution which can be easily installed and can be monitored and controlled locally and remotely via the provided control software.

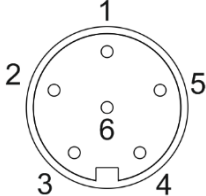
SPECIFICATIONS

ELECTRICAL PARAMETERS	
Frequency band	Downlink: 390 – 395 MHz Uplink: 380 – 385 MHz
Operating frequency bandwidth	5 MHz
Mode of operation	Band selective duplex
Linear output power	Downlink: +36 dBm or 2 x 33 dBm (2 carriers) meets ETSI regulation Uplink: +24 dBm or 2 x 21 dBm (2 carriers) meets ETSI regulation
ICP3	Downlink: +68 dBm minimum @ 2 x 33 dBm Uplink: +51 dBm minimum @ 2 x 21 dBm
ACPR	60 dB @ linear output power
Nominal gain	90 dB
Gain setting range	90 to 60 dB adjustable in 1 dB steps
Gain ripple	<±1.5 dB typical
Gain stability	<±1.5 dB (within operating temp. range)
Uplink input noise figure	<6 dB @ maximum gain
Harmonics	According to ETSI regulation
Spurious radiation	According to ETSI regulation
Local leakage	According to ETSI regulation
EVM	<1% typ. (ETSI regulation <10%)
Power supply voltage	230 VAC, 50 – 60 Hz
Power consumption	<100 W
MECHANICAL PARAMETERS	
Type of power supply plug	Type F plug
Type of RF connectors	N – female
Number of RF connectors	2, MOBILE, DONOR
Weight	<24 kg
Dimensions	400 x 420 x 155 mm (see outline dimensions)

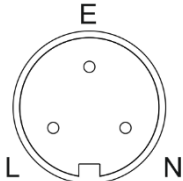
ENVIRONMENTAL PARAMETERS			
Operating temperature range		0 °C ... +45 °C	
Storage temperature range		-30 °C ... +70 °C	
Cooling		Convection and optional switched forced cooling	
Degree of protection		IP65 Outdoor	
SOFTWARE PARAMETERS			
Wired control		Ethernet (SNMP v1 / v2c)	
Alarm I/O		4 external alarm inputs, user configurable sum alarm output (dry contact), SNMP notifications, status LED	
Wireless control (optional)		2G / 4G modem	
SUM ALARM CONNECTOR PINOUT (D-SUB MALE) ⁽¹⁾			
Pin no.	Function	Pin no.	Function
1	N.C.	6	N.C.
2	D.N.C.	7	Dry Contact
3	D.N.C.	8	N.C.
4	Dry Contact	9	N.C.
5	GND	-	-



EXTERNAL ALARM CONNECTOR PINOUT (BULGIN PX0412/06S)	
Pin no.	Function
1	External Alarm IN 2
2	External Alarm IN 3
3	External Alarm IN 4
4	N.C.
5	External Alarm IN 1
6	External Alarm COMMON



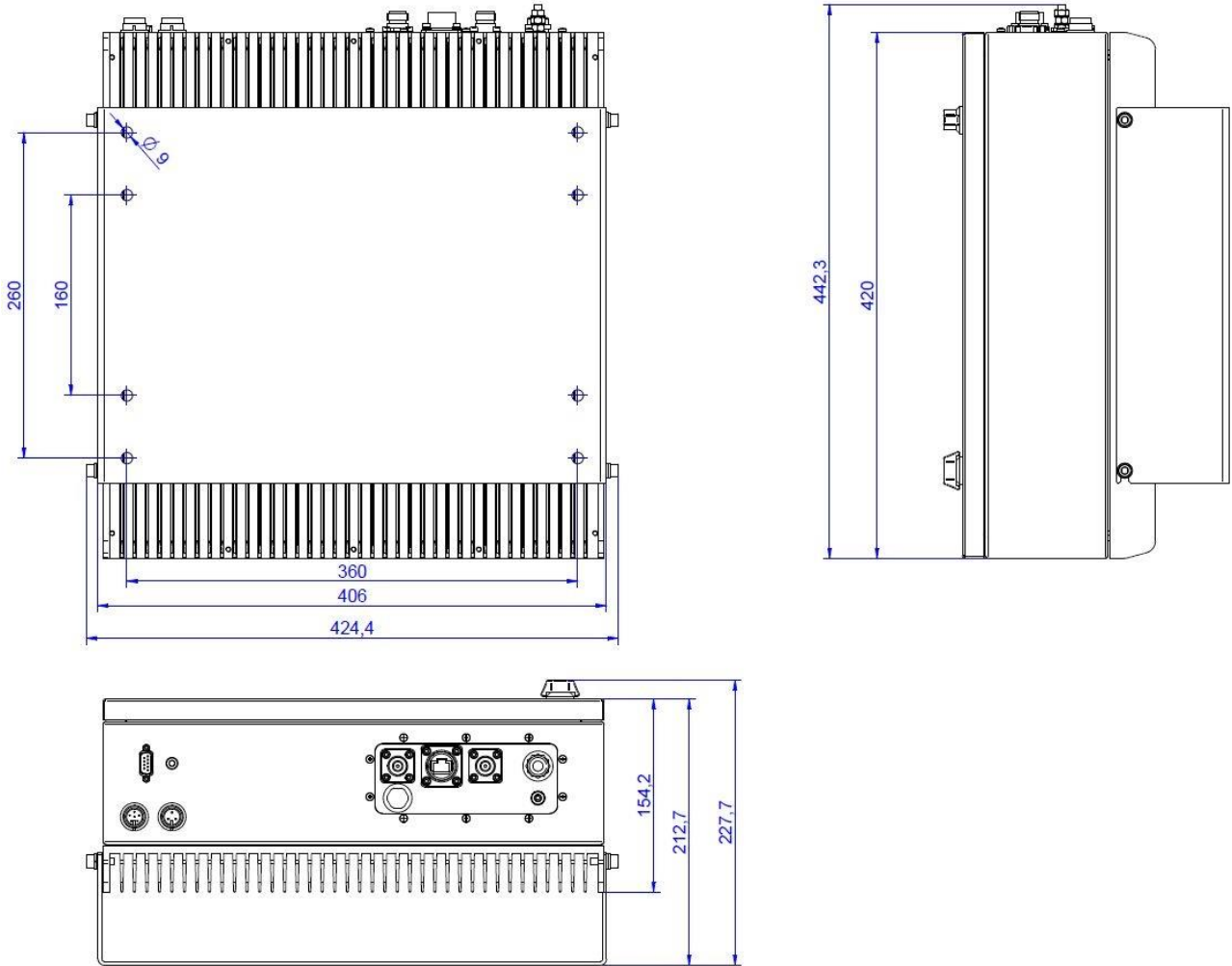
FAN CONNECTOR PINOUT (BULGIN PX0412/03S)	
Pin no.	Function
E	N.C.
L	+27 VDC (+)
N	0 VDC (-)



Specifications are subject to change without notice.

(1) In POWERED OFF state the relay will be open. The operation of the Dry Contact relay is configurable by the user.

OUTLINE DRAWING (mm)



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BRTL43K11344	BRTL43, 36 dBm, 380-385 MHz / 390-395 MHz, G 90 dB, 230 VAC, Ethernet, SNMPv2c, wall mount, combined RF ports

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BRTL43-LM-K11344	V01	2023-03-31