



endless... seamless... wireless...

TETRA



BSR421

BAND SELECTIVE LOW POWER REPEATER

The BSR421 offers quick and easy coverage deployment for indoor applications such as police stations, garages, power plants or confined areas. An outside donor antenna picks up the signal, whilst the indoor server antenna provides the coverage inside the building. The unit provides relatively high output power and amplifies the signals with a gain of up to 70 dB. Installation is further made easy through the use of a wall adapter.



SPECIFICATIONS

Frequency range	380-470MHz
Operator bandwidth	5 MHz
Duplex distance	10 MHz
Impedance	50 Ω
Output power/carrier	+19dBm (1 carrier) +16dBm (2 carriers) +13dBm (>2 carriers)
Gain	50-70 dB in 1 dB steps
IP3	+48dBm typical
Noise figure	3.5dB typical at maximum gain
Group delay	2us max
ALC	Implemented
Spurious Emissions from RF port	< -36dBm
Intermodulation Products	< -36dBm
Power Requirements	100 - 240 VAC 50/60Hz or -48 VDC
Power Consumption	< 20W typical

External connection

Local Maintenance Terminal	RS232
RF Ports	N-type Female
External alarms	Plinth
Remote Control and Alarm	
External alarms	4 external alarm inputs (NC or NO configurable)
Repeater status relay	1 Relay normally open (NO)

Remote connection Via GSM, GSM-R or PSTN modem or Ethernet

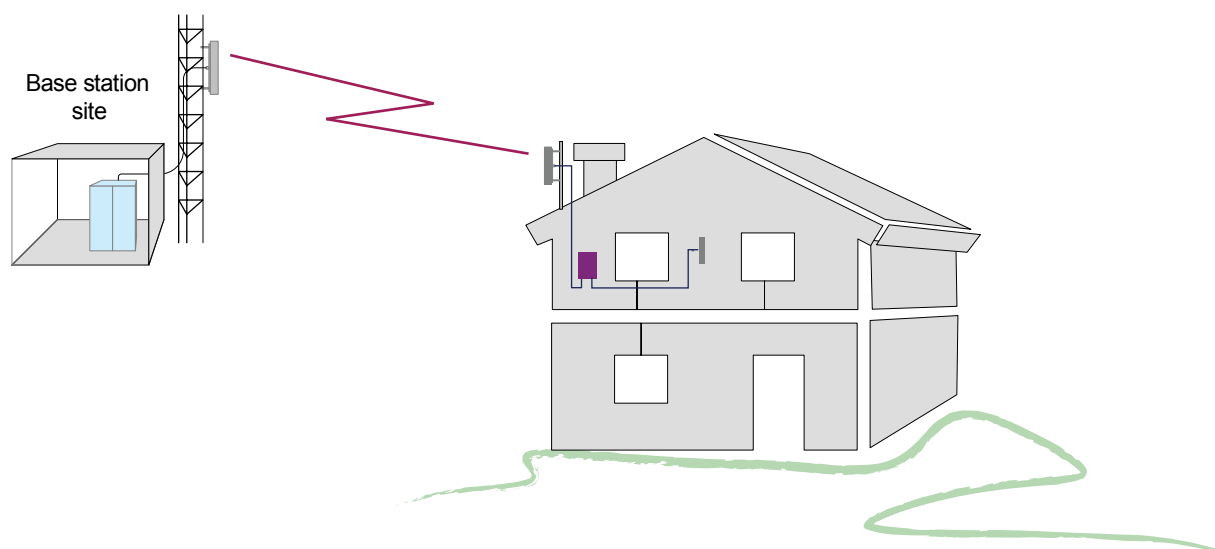
Mechanical Specification

Dimensions	280 x 224 x 83 mm (H x W x D)
Enclosure	Aluminium (IP 52)
Weight	4 kg
Mounting	Wall mounted
Cooling	Convection

Environmental Specification

EMC	See compliance below
Operating Temperature	0 to + 45 °C
Storage	- 30 to + 70 °C
MTBF	> 100 000 hrs
Complies with	TS 101 789-1 73/23/EEG

All data is subject to change without prior notice



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