



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

BSR424

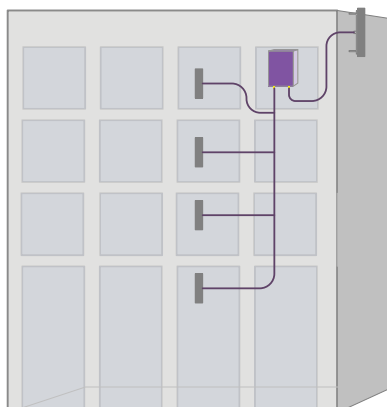
CDMA/TETRA



BAND SELECTIVE REPEATER

A seamless CDMA /TETRA network requires reliable tunnel coverage. The BSR424 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 antennas provides the coverage inside the building. The unit provides high output power and amplifies the signals with a gain of up to 80 dB.

The BSR424 repeater is most often used in combination with one or several BSR421 repeaters.



SPECIFICATIONS

Frequency range	380-470MHz
Operator bandwidth	5 MHz
Duplex distance	10 MHz
Impedance	50 Ω
Output power (UL)	+17dBm
Output power/carrier (DL)	1 carrier: +36 dBm 2 carriers: +33 dBm 3-4 carriers: +30 dBm 8 carriers: +27 dBm
Gain	65 - 80 dB in 1 dB steps
IP3	> +44dBm
Noise figure	<5dB typical at maximum gain

Group delay	2us max
ALC	Implemented
Spurious Emissions from RF port	< -36dBm
Intermodulation Products	< -36dBm
Power Requirements	230 VAC 50Hz, 115 VAC 60 Hz, -48 VDC
Power Consumption	< 150W
External connection	
Local Maintenance Terminal	RS232
RF Ports	7/16 female or N-Type
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	540 x 350 x 150 mm
Enclosure	Aluminium (IP65)
Weight	28 kg
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	R&TTE Directive including EN 301 489-18 ETSI TS 101 789-1 EN 60 950

All data is subject to change without prior notice

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