

BSR 1804

Band selective, compact, TETRA repeater

Key features

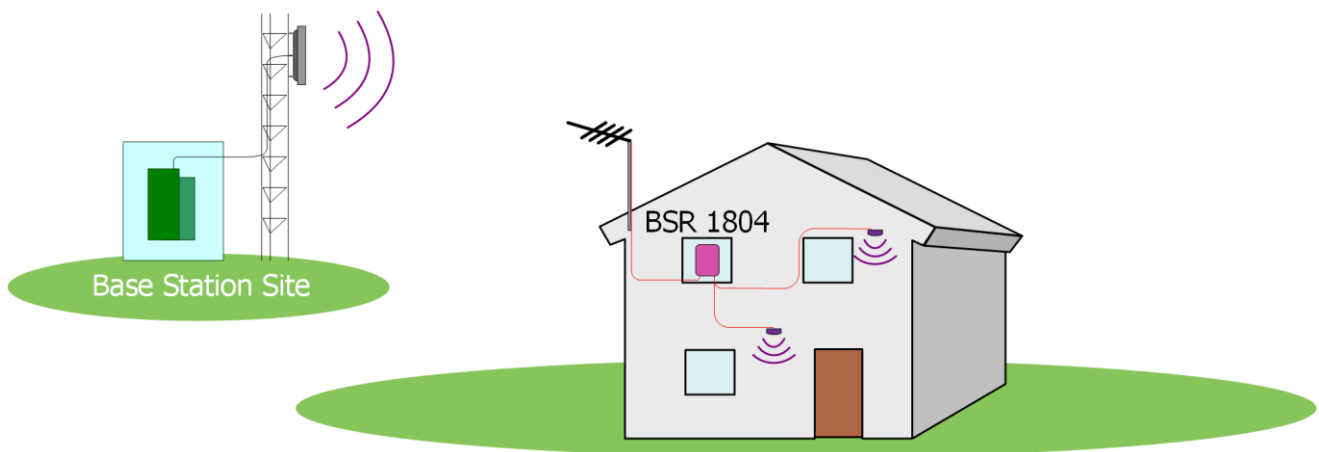
- Compact design
- 18 dBm output power
- 70 dB gain
- Low power consumption
- SNMP and web server support



The Axell Wireless BSR 1804 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. The low power consumption reduces the OPEX while simple and straightforward installation principle allows for a quick deployment.

SNMP support enables an easy and flexible integration into existing monitoring platforms. The latest version of the Active Element Manager, AEM 4.x is supported. Commissioning and troubleshooting is achieved via the integrated web server or alternatively with our RMC software.



Technical specification

	Downlink	Uplink
Frequency bands available (MHz)	390-395	380-385
	395-400	385-390
	420-425	410-415
	425-430	415-420
	460-465	450-455
	465-470	455-460
Operator bandwidth (per band)	5 MHz	
Duplex distance (in one band)	10 MHz	
Impedance	50 Ω	
Output power/carrier (DL) per band	1 carrier: +18 dBm 2 carriers: +15 dBm 4 carriers: +12 dBm 8 carriers: +9 dBm	
Gain	50 dB to 70 dB in 1 dB steps	
Intermodulation products	< -36 dBm	
Group delay	< 2 μ s	
Remote control and alarm supervision	Via Ethernet or GSM, GPRS modem.	
Power Requirements	+12V DC (*)	
Power Consumption	<20 W	
External connection		
Local Maintenance Terminal	RS232 and USB	
RF Ports	N-Type Female	
External alarms inputs	4 external alarm inputs (N/C or N/O configurable)	
Alarm relay output	N/C or N/O configurable	
Mechanical specification		
Dimensions	280 mm x 224 mm x 83 mm	
Enclosure	Aluminium (IP22)	
Weight	4 kg	
Cooling	Convection	
Environmental specification		
Operating Temperature	0°C to 45°C	
Storage Temperature	-30°C to + 70°C	
Compliance		
Safety	EN 62368-1	General
	EN 50385	General
EMC	EN 301 489-1	General
	EN 301 489-5	Tetra
Radio	EN 302 561	Tetra

(*) A suitable external transformer is supplied specific to customer requirements.

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