



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

Frequency bands available (MHz)	Downlink	Uplink	
	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 µs		
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 a	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	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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