

BSR 3604

High-power band selective TETRA booster

COBHAM

2016 Datasheet – Version 1.1

The most important thing will build is trust

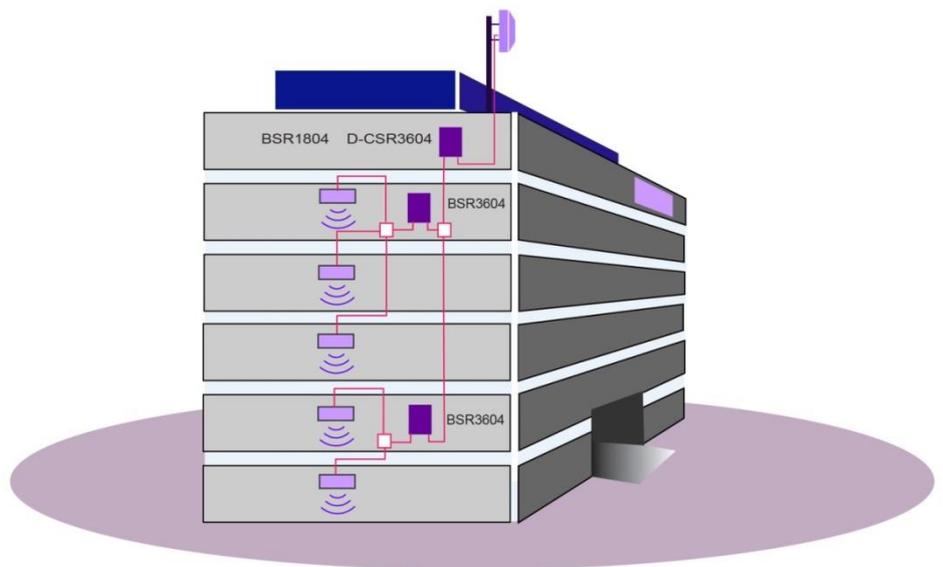


Key features

The BSR 3604 offers quick and easy coverage deployment for indoor environments such as police stations, shopping centres, power plants or other types of confined areas. It can be used in combination with an optical distribution system, as part of a system where an entry shelf unit such as an antenna fed repeater is used in combination with the BSR 3604.

The BSR 1804 (band selective) or D-CSR 3604 (Digital channel selective) is ideal to use as an entry shelf unit. An outdoor donor antenna picks up the signal, feeds the signal via the BSR 1804 or D-CSR 3604 to one or several BSR 3604 units.

The signals are then distributed via leaky feeder or indoor server antennas, thus providing sufficient coverage inside the building. The unit provides high output power and amplifies the signals with a gain of up to 60 dB.



Technical specification

Frequency bands available (MHz)	Uplink	Downlink
	380-385	390-395
	385-390	395-400
	410-415	420-425
	415-420	425-430
	450-455	460-465
	455-460	465-470
Operator bandwidth	Adjustable 100KHz - 5MHz in 25KHz steps	
Duplex distance (in one band)	10 MHz	
Impedance	50 Ω	
Composite output power (UL)	-2dBm	
Output power/carrier (DL) per band	1 carrier: +36 dBm, 2 carriers: +33 dBm, 3-4 carriers: +30 dBm 8 carriers: +27 dBm	
Gain	45 - 55 dB in 1 dB steps	45 - 55 dB in 1 dB steps
IP3	+68dBm typical	
Noise figure	<5dB typical at maximum gain	
Group delay	<2 μ s at band centre for 5MHz filter , <7 μ s at band edge	
ALC	Implemented	
Spurious emissions from RF port	< -36dBm	
Intermodulation products	< -60dBc (according to TS 101-789-1)	
Remote control and alarm supervision	Via modem GSM, GSM-R or PSTN modem or Ethernet	
Power Requirements	230 VAC 50Hz, 115 VAC 60 Hz, -48 VDC	
Power Consumption	< 150W	

External connection

RF Port	7/16 Female
External alarms inputs	4
Alarm relay output	Dry contact

Mechanical specification

Dimensions	540 x 382x 198 mm
Enclosure	Aluminium (IP65)
Weight	22 Kg
Cooling	Convection

Environmental specification

Operating Temperature	- 25 to + 55 °C
Storage Temperature	- 30 to + 70 °C
Complies with	R&TTE D

