



FIBER OPTIC FM/DAB REPEATER

- **DUAL FREQUENCY BAND**
- **LOW DISTORTION**
- **FAN COOLING**

BRSC10 is an optical slave repeater unit, built with high power amplifiers, of BHE's FM/DAB sound broadcast solution. It operates as a single unit to amplify two different frequency bands, when connecting it to a BHE Optical Master Unit using a Fiber Link. The BRSC10 can be controlled via a local ethernet connection. The repeater has a rack-mounted enclosure with fan cooling. The unit is used in a fiber optic link environment of repeaters in special places like in tunnels or in underground stations to increase the reliability and availability of the radio signal retransmission system.

Electrical Specification

Frequency range	FM: 87.5 – 108 MHz DAB: 174 – 240 MHz
Max. RF Gain	45 dB / 45 dB typical
Gain flatness and variation	< 2dB
Programmable attenuation	0 – 30 dB in 1dB steps
Output IP3	58 dBm/ +57 dBm typical
Harmonics	< -80 dBc
Output VSWR	2:1
Output Power , One channel	FM: 40 dBm DAB: 35 dBm @ 40 dB MER
Output Power , Composite	FM: 27 dBm @ 3carriers DAB: 27 dBm @ 3 ensembles
Control and monitoring	via local Ethernet (SNMP)
Optical Connectors	RF: FC/APC
Control Connectors	RJ-45, D-SUB9 female
RF Connectors	N – Type Female
Outer Dimensions	19", 3U subrack
Weight	17 kgs
Power supply	Dual 48VDC with monitoring or 230 VAC
Power consumption	< 200 W
Operating Temperature Range	-0°C ... +55°C
Storage Temperature Range	-30°C to +70°C
Degree of Protection	Indoor

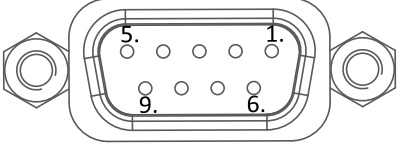
Specifications are subject to change without notice.

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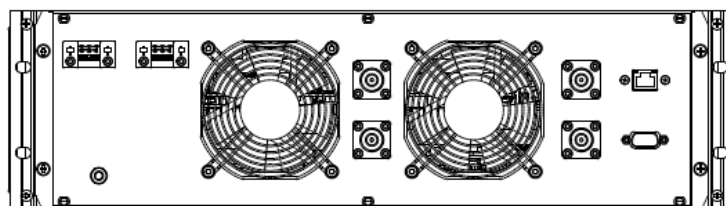
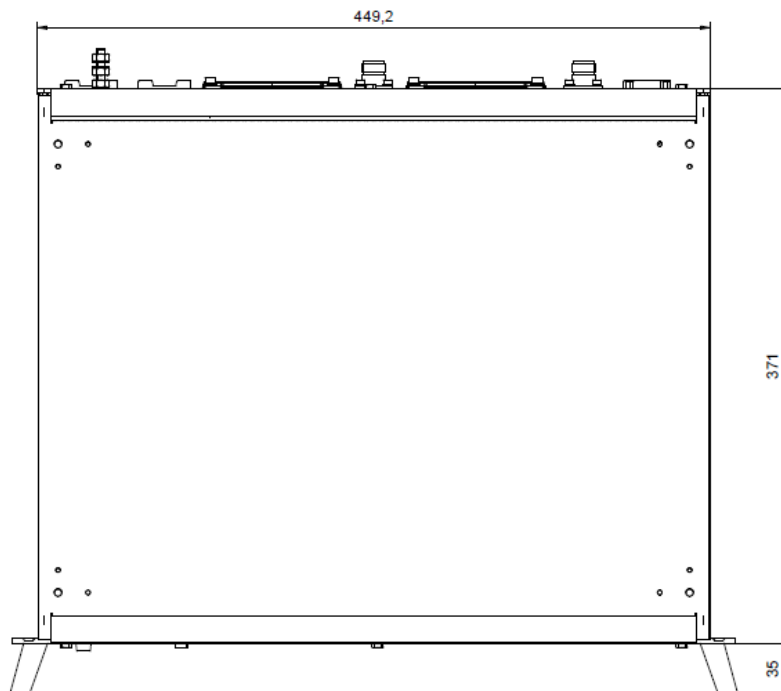
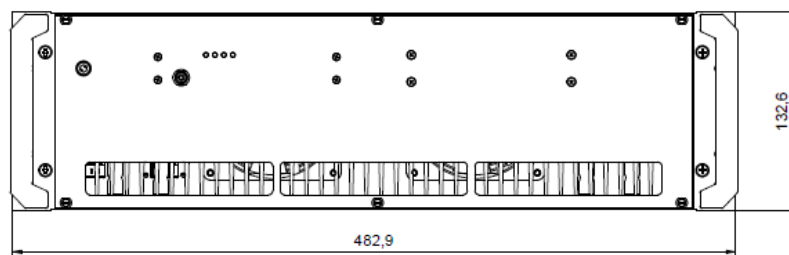
Local control connector pin map

Connector: DSUB 9 Male

Pin no.	Function	Pin no	Function
1	Dry Contact DAB PAM	6	Ext. Alarm 1 IN
2	Dry Contact DAB PAM	7	Dry Contact CENTER
3	Dry Contact FM PAM	8	Dry Contact CENTER
4	Dry Contact FM PAM	9	Ext. Alarm 2 IN
5	GND		



Outline drawing (mm):



Datasheet ver 2.0 / 30 March 2020