

MAIN FEATURES

- ❖ Medium output power
- ❖ Full band amplifier
- ❖ Triple RF input
- ❖ Low Power Output for RF-Optical converter
- ❖ Low distortion
- ❖ 19", 1U Rack Mount Tray
- ❖ Passive Heatsink



DESCRIPTION

BRRD22 is a medium power amplifier of BHE's audio broadcast solution. It can be operated as a single unit to amplify the whole VHF DAB frequency band. To handle fewer ensembles, a channel selective unit(s) (e.g. BRRD14) should precede the unit. One amplifier can serve several channel modules. To simplify the RF cabling, the amplifier has three independent inputs. This unit can be combined with BHE rackmount TETRA repeaters fulfilling the various communications need of special places like tunnels or underground stations.

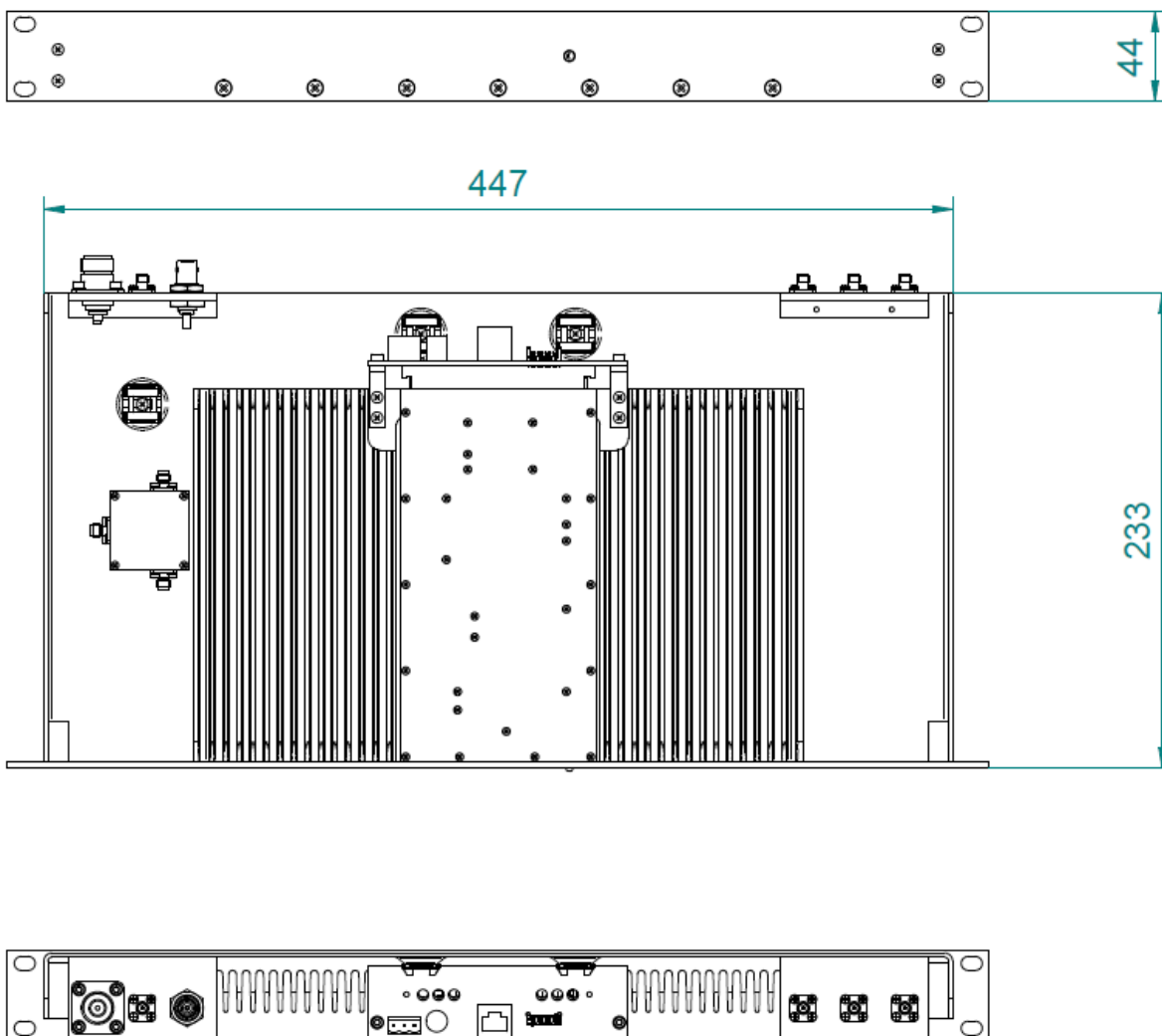
SPECIFICATIONS

RF INPUT PARAMETERS	
Number of input ports	3 independent, combined inside
Frequency range	174 – 240MHz
Input VSWR (all inputs)	1.2:1
Input level	+16dBm maximum per input
RF OUTPUT PARAMETERS	
Number of output ports	1 High power, 2 Low power
Max. Gain	38dB typical
Low power output loss to main	21dB, 51dB typical
Programmable attenuation	0 – 31 dB
Gain step	1dB
Output 1dB compression@+25°C	+33dBm typical
Output IP3 (inband, two signals, Δf=1MHz)@+25°C	+48dBm typical
Gain flatness	<2dB
Gain variation	<2dB
Harmonics	<-70 dBc
Output VSWR	2:1
CONTROL & MONITORING PARAMETERS	
Control and monitoring	Via LAN. SNMP v1 / v2c / (optional) v3 support. Embedded web server.
Digital Inputs	Mute + 2 other data in, firmware dependant
Digital Outputs	Alarm + 2 other data out, firmware dependant
Multicolour Status LED on front panel	RED at Alarm, GREEN in normal operation
Monitoring	Output RF power (reflected and forward) Internal DC voltages, Temperature

MECHANICAL PARAMETERS	
Dimensions	233x 447x 44 mm
RF inputs	SMA female
RF output	N -type female
RF low power output	SMA female
RF output monitor	BNC-female
DC input connector	3 pin header 5.08mm pitch
Control connector	RJ45 for Ethernet, MICS10 for for digital I/Os
POWER SUPPLY PARAMETERS	
Voltage	12V DC
Supply current	1.1A typical @ +12V
ENVIRONMENTAL PARAMETERS	
Operating temperature range	0°C ... +50°C
Storage temperature range	-30°C ... +70°C
Humidity	95% (not condensing)

Specifications are subject to change without notice.

OUTLINE DRAWING (mm)





BRRD22 Rack-mount DAB Amplifier

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BRRD22K11161	BRRD22 1W DAB amplifier w. low power outputs V2 F: 174-240MHz, Gain DL: 38dB, 12V DC, 19", 1U subrack, RAL7035

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BRRD22-LM-K11161	V01	2023-04-19