

MAIN FEATURES

- ❖ Digital filter technology (SDR)
- ❖ Flexible filter selection
- ❖ Frequency shift function
- ❖ High dynamic range
- ❖ High sensitivity
- ❖ SNMP support
- ❖ Low power consumption
- ❖ Compact size
- ❖ Optional cabinet mounting kit



DESCRIPTION

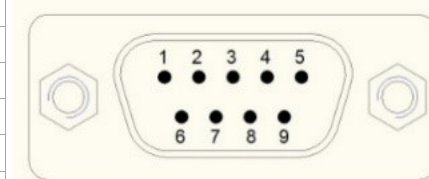
This repeater is intended to be used in 400 MHz indoor TETRA systems. Based on the latest digital filter technology this model offers freedom for the users to select the best possible filter characteristics for the actual application type. It has perfect EVM parameters of <1% and low power consumption figures.

Supplied in a compact box, this repeater is an ideal choice to be used in areas where flexible filter selection is essential for smooth operation and/or network design. It is a very economical solution which can be easily installed and can be monitored and controlled locally and remotely via the provided control software.

SPECIFICATIONS

ELECTRICAL PARAMETERS	
Frequency band	Downlink: 390 – 395 MHz Uplink: 380 – 385 MHz
Operating frequency bandwidth	5 MHz
Mode of operation	Channel (up to 8) selective duplex (with different filters)
Linear output power	Downlink: +20 dBm or 2 x 17 dBm (2 carriers) meets ETSI regulation Uplink: +18 dBm or 2 x 15 dBm (2 carriers) meets ETSI regulation
ICP3	Downlink: +47 dBm minimum @ 2 x 17 dBm Uplink: +45 dBm minimum @ 2 x 15 dBm
ACPR	60 dB @ linear output power
Nominal gain	75 dB
Gain setting range	75 to 45 dB adjustable in 1 dB steps
Gain ripple	<±1.5 dB typical
Gain stability	<±1.5 dB (within operating temperature range)
Uplink input noise figure	<6 dB @ maximum gain
Configurable Uplink Muting	Adjustable input signal threshold for activation
Harmonics	According to ETSI regulation
Spurious radiation	According to ETSI regulation
Local leakage	According to ETSI regulation
EVM	<1% typ. (ETSI regulation <10%)
Power supply voltage	100 – 250 VAC, 50 – 60 Hz with external AC/DC power supply
Power consumption	<50 W

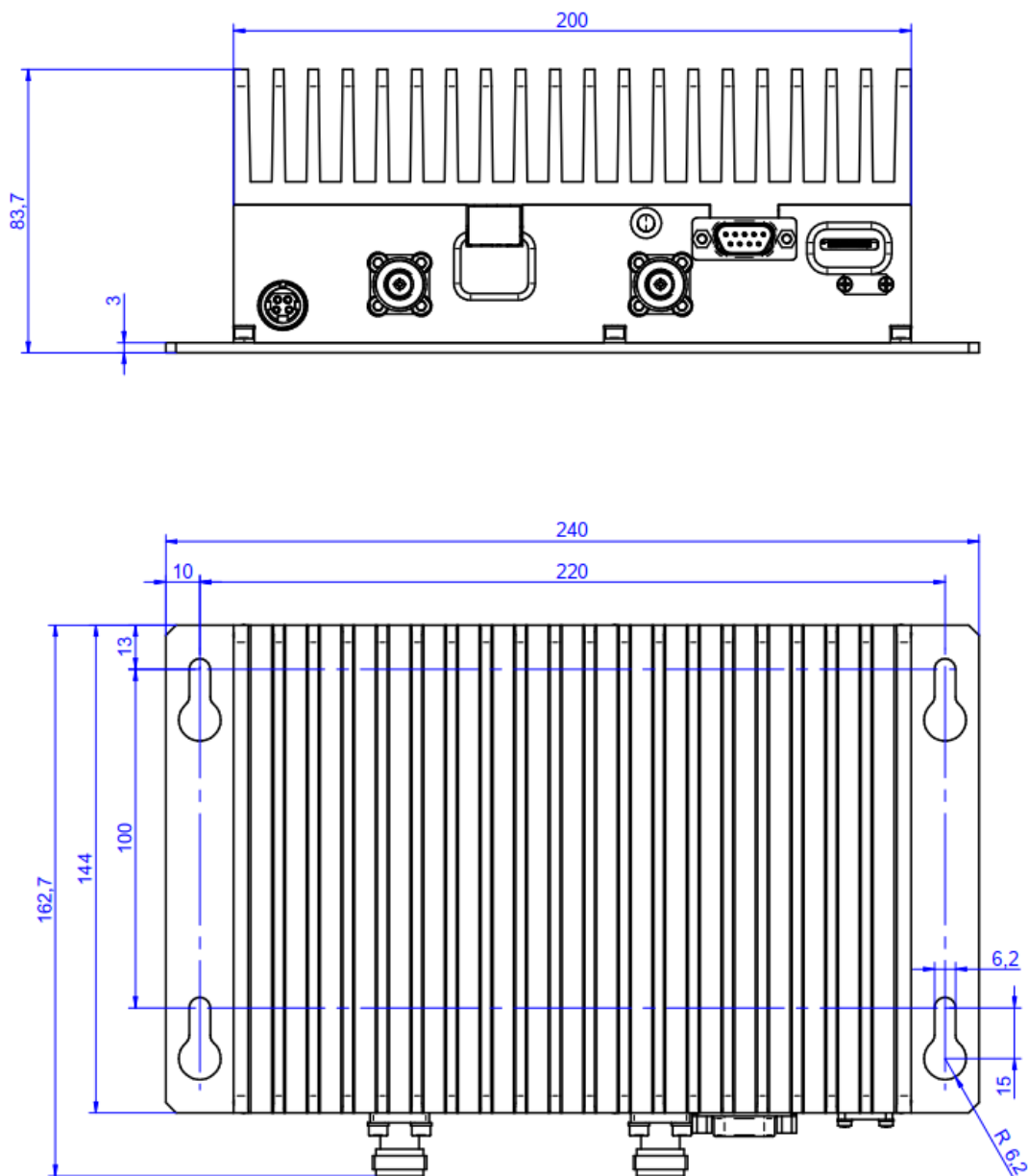
MECHANICAL PARAMETERS			
Type of external power supply	GST120A12-R7B; MEAN WELL		
External power supply plug	Type F plug		
Type of RF connectors	N – female		
Number of RF connectors	2, MOBILE, DONOR		
Weight	<3,5 kg		
Dimensions	240 x 163 x 84 mm (see outline dimensions)		
ENVIRONMENTAL PARAMETERS			
Operating temperature range	0 °C ... +45 °C		
Storage temperature range	-30 °C ... +70 °C		
Relative humidity	<75%, non-condensing		
Cooling	Convection		
Degree of protection	IP40 Indoor		
SOFTWARE PARAMETERS			
Wired control	Ethernet (SNMP v1 / v2c)		
Alarm I/O	4 external alarm inputs, user configurable sum alarm output (dry contact), SNMP notifications, status LED		
Wireless control	Not installed		
EXTERNAL ALARMS & SUM ALARM CONNECTOR PINOUT (D-SUB MALE) ⁽¹⁾			
Pin no.	Function	Pin no.	Function
1	External Alarm 1	6	Ext. Alarm Common
2	External Alarm 2	7	Dry Contact
3	N.C.	8	External Alarm 3
4	Dry Contact	9	External Alarm 4
5	Ext. Alarm Common	-	-



Specifications are subject to change without notice.

(1) In POWERED OFF state the relay will be open. The operation of the Dry Contact relay is configurable by the user.

OUTLINE DRAWING (mm)



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BRTS35K11658	BRTS35, 20 dBm, 380 - 385 MHz / 390 - 395 MHz, G75 dB, 100 - 240 VAC external power supply, 8CH, SNMPv2c, Error log, RTC, Spectrum analyzer, 2x N-female, IP40

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BRTS35-LM-K11658	V01	2025-09-10