

RF41
A
RCOMM03

Selective repeaters and amplifiers for radio communication



ARF41 range's RCOMM03 repeaters are used for selectively repeating or amplifying a sub-band or a channel on a particular radio frequency band. In this way they guarantee continuity in radio communication when radio coverage is to be extended (tunnels, parking lots, underground trains, buildings, etc.)

Each repeater is useful on one of the following radio communication bands 66-88MHz analogue, RUBIS, 146-174MHz analogue, TETRA, TETRAPOL or 440-470MHz analogue and they can be configured for use in Simplex or Duplex mode.

Configuration is carried out through an embedded http server that can be accessed using a standard web browser (Internet Explorer, Firefox, etc.). Each line is made up of an "RF/FI downconverter" and an "FI/RF Upconverter" module.

They are in the form of 3U 7F plug-in units built into a 19" subrack, which is common to the entire ARF41 range, and can host up to 12 modules.

Specifications

• Electrical properties

Frequency agility

66-88 MHz analogue, RUBIS, 146-174 MHz analogue, TETRA, TETRAPOL or 440-470 MHz analogue

System Channel Bandwidth

10 - 12.5 - 25 - 100 - 500KHz depending on the version (other choices available on request)

Sensitivity

-95dBm

RF Power

+10dBm (Class A driver) or +27dBm (Class A P.A.)

Harmonic distortion

<5% (analogue version)

Group time

6µs in TETRA or 220µs in RUBIS and TETRAPOL

RF input attenuation

Progr. from 0 to 20dB

Repetition threshold

-20 to -90dBm

Amplification gain

Progr. from 30 to 100dB (except for 20dB Class A P.A.)

Channel blocking (Simplex, RUBIS direct)

Input on front or backplane connectors

Supply voltage

12Vdc - 20/72Vdc - 100/240Vac (Power: 10W per module)

• Configuration and Supervision

IP management

Embedded http server.

Alarm summary on dry loop

Available on backplane connectors

Remote control and remote signalling

Available on backplane connectors

LEDs on front

Power supply, alarm summary, carrier detection, transmission

• Mechanical properties

"Downconverter" front connectors

SMA : 1 RF input and 1 FI output

"Upconverter" front connectors

SMA : 1 FI input and 1 RF output

Backplane connectors

RJ45 (Ethernet) - SubD15 (TC/TS) - Power supply

Dimensions

19" 3U subrack (up to 12 modules per rack)



Part Numbers

Download them on the product page, on our website
www.adeunis-rf.com

Your distributor