

VLP-1 DAB In-store Repeater



Low-power Repeater for Shops and Department Stores



To effectively demonstrate DAB receivers in shops and department stores, it is often necessary to boost the indoor signal strength. This can be achieved by using a low-power repeater connected to an external antenna.

The VLP-1 In-store Repeater has been specifically designed to retransmit a very low power DAB signal in the immediate area of a retail store. The power level used is approximately one thousand times lower than a typical cellular phone.

VLP-1 is available for wall/ceiling mounting and can be optionally specified with in a rackmount chassis.

For stores that do not already have a suitable external antenna, use of a four element Yagi type external antenna is recommended. The receive antenna is not included with VLP-1 and should be sourced locally, if required.

The standard VLP-1 repeater is supplied on a 220mm x 150mm mounting plate for easy fixing to a wall or ceiling. An optional 1U 19" rack Mount version is also available.

Most installations can be expected to take a similar amount of time as a typical satellite dish installation, with the installer requiring a similar level of competence and equipment, including an RF meter or spectrum analyser.

Highlights

- Available with 8MHz to 30MHz bandwidth within Band-III
- Compact dimensions
- Easy to install
- Wall/ceiling mount or rackmount versions
- 1mw output per multiplex
- Integral band-pass filter to minimise external interference
- Variable input attenuator for strong signal areas
- Linear variable gain amplifier -32 to -50dB
- AC power adapter
- Re-transmit antenna on magnetic mount, with 5 Metre feeder cable

Specifications

RF Input

-32dBm to -50 dBm per multiplex

Input Connector

F Type

Receiver Antenna

Not included. To be supplied by the local installer.

Recommended type is 4 element Yagi antenna.

RF Output

1mW per multiplex
10mW total

Re-Transmit Antenna

Magnetic Mount
Supplied with 5 Metre feed cable with BNC connector

Output Connector

BNC

Gain

Greater than 50dB

Bandwidth

8 to 30 MHz within Band-III (174MHz – 240MHz)
The required bandwidth must be specified when ordering and be must compatible with local regulations.

Power Adapter

90 V to 264V AC

Power Consumption

4 W typical

Physical

Wall/Ceiling Mount Version:
220mm x 150mm mounting plate

Rackmount Version:
1U chassis - 483mm x 44mm

Compliance

ETSI 302 077

Specifications are subject to change without notice
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VLP-1 Optional rack-mounting version

