

INDOOR REPEATER DVB-H

SMB100



BROADCAST



Field applications

- Mobile TV: improved coverage DVB-H in the industrial buildings, shopping malls, train stations, airports, hotels, tunnels, car parks, exhibition halls, convention centers, etc ...

Benefits and key features

- Single Channel Repeater
- High selectivity (SAW filter)
- 2 identical outputs
- Power adjustable up to 20dBm for each output
- Automatic Gain Control
- Anti-oscillation system
- Adjusting the channel and power with wheel encoder



MOBILE TV WHERE YOU WANT !

The increasing development of mobile TV applications DVB-H on terminals such as mobile phone, TV receivers or PC with DVB-T/H antennas, is constrained by the insufficient field strength received indoor because of too high attenuation due to walls, partitions, etc...

To stimulate and support this development, the SMB100 can easily improve the coverage in locations such as industrial buildings, shopping centers, hotels, tunnels, car parks, stations, airports, exhibition halls, convention centers, etc...

The SMB100 receives the signal via an antenna outside the building, amplifies and retransmits the same channel to 2 antennas (up to 20 dBm at each antenna). The antennas can be connected directly to output or deported.

The SMB100 is easy to use, wall or ceiling-mounting, supplied with the sector, and channel and power are set by simple thumbwheel. According to emission standards, it requires no additional filter output.

Intelligent, he has an internal AGC to ensure the level of power output, and an anti-oscillation system in case of bad installation of antennas.

With an index of protection IP51, it can be installed anywhere in a building.

BROADCAST OD

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ACTIA SODIELEC

INDOOR REPEATER DVB-H

SMB100



Réf : DFIB06GB-SMB 100 - 14/09/11

TECHNICAL CHARACTERISTICS

Mechanical Features

Dimensions (H x L x P)	202 mm x 405 mm x 71 mm
Weight	2,9 Kg
Presentation	Aluminium case
Protection level	IP51 for wall-mounting or ceiling-mounting-IP50 in the other cases
Supply	90-264 V AC / 47-63 Hz / IEC plug
Consommation	< 20 W

Electrical Features

Standard	DVB-H
RF features	
Frequency	470 à 702 MHz
Frequency offsets	-1, +1, +2, +3 x 166 kHz
Bandwidth	8 MHz
RF Input	
Connector	N female
Sensibility	-30 dBm à -60 dBm
Selectivity	≥ 40 dBc @ ± 12 MHz
Noise factor	< 6 dB
RF Output	
Connector	N femelle
Output level	4 available levels : 10 dBm, 14 dBm, 17 dBm, 20 dBm
Maximum gain	< 80 dB
Group delay	≤ 1 µs
Anti-oscillation system	Limits the gain at the output if the isolation between antennas < (gain + 20dB)
Intermodulations	≥ 32 dBc @ ± 4,3 MHz

Environmental Features

Temperature range	0°C à +50°C
Relative humidity	10% à 90%

Directives & Norms

DVB	ETS 300 744, EN 302 304, TR 102 377, TR 102 401, TR 101 190, ETR 290, ETR 154,
EMC	89/336/CEE, 73/23/CEE, EN 301489-1, EN 301489-14, EN 55022, EN50082-1, EN 6025+A1+A2, IEC 213, 93/68/EEC, EN 302 296

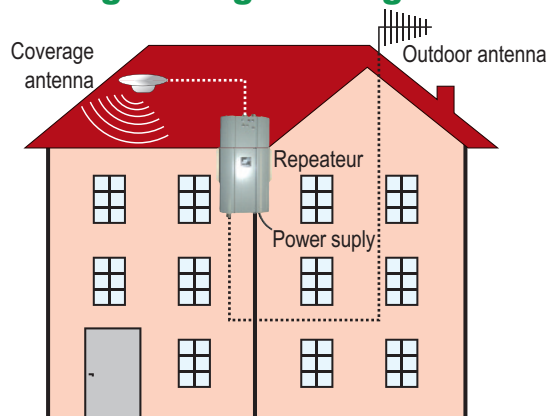
QUALITY REFERENCES



CE 0682

FUNCTIONING DIAGRAM

Coverage of big buildings :



Two floors building

(Omnidirectionnal antenna) :

