



## Application

- DVB-T/-H/-T2 & ISDB-T deployment
- Coverage enhancement

## Key Features

- MFN and SFN compliant
- Echo canceller -15dBc
- Automatic Digital Precorrection
- 100% agile in UHF band
- HTTP, SNMP server
- Remote control by GPRS

## Benefits

- Cost effective solution
- Alternative to transmitters
- Fast and easy deployment

## Contact us

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# Solution for Digital TV coverage

## DVB-T/-H/-T2 & ISDB-T Gapfiller 1W-10W



# DVB-T DVBH DVB-T2 ISDB-T

### The cost alternative to transmitter

The Gap-filler extends the coverage of a main broadcasting station in a simple and economic way by filtering and amplifying the DVB-T/-H/-T2 or ISDB-T radio frequency channel. A digital echo-canceller strongly limits ripple in the band due to the emission and reception antenna isolation.

Gap-fillers exist in 5 ranges of power: 0.5 W to 10W, allowing the coverage improvement adapted to the needs of the broadcasting companies.

To assure the best possible quality of broadcasting, our gap-fillers are equipped with an automatic gain control, compensating the received signal variation, thus ensuring a constant output power.

The gap-filler is completely configurable from the front panel thanks to an intuitive scrolling menu. The embedded WEB & SNMP server, with a friendly GUI, permits a remote control through IP network or optional embedded GPRS modem. Network Management System is available.

To facilitate installation, gap-fillers size is reduced and fits in a 600mm depth 19" cabinet. They are 100 % agile in all the UHF band, facilitating maintenance and interchangeability if necessary.

Ordering Code	Designation
GF1DVB	Gapfiller DVB / ISDB 1W
GF5DVB	Gapfiller DVB / ISDB 5W
GF10DVB	Gapfiller DVB / ISDB 10W
GF-DVB-OPT-MFN	MFN mode (option)



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Quality Model FP1004D / ed 27 / 07 / 2011

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# Solution for Digital TV coverage

## DVB-T/H/T2 & ISDB-T Micro-Gapfiller Indoor

RF Features	1W	5W	10W
Standards	DVB-T, DVB-H, DVB-T2, ISDB-T		
Input / Output Frequency	470-862 MHz		
Bandwidth	8, 7 or 6 MHz		
Offset	-3, -2, -1, +1, +2, +3 x 1/6 MHz		
Return loss	-17 dB (1,33 : 1)		
Input level	-72 to -32 dBm		
Output level	1 Wrms	5 Wrms	10 Wrms
Out of band emission	Compliant with : ETSI EN 302 296 V1.1.1		
Shoulders	≥ 37dB (≥ 39dB typ.)		
MER	≥ 30dB (≥ 32dB typ.)		
<i>Gapfiller without echoes</i>	≥ 25 dB		
<i>Gapfiller with echoes</i>			

Echo-canceller Features	Standard Mode	Enhanced Mode
Gain – Isolation ratio	-5 dBc	-15 dBc
Correction efficiency	30 dB	30 dB
Cancellation width	4 μs	2 μs
Selectivity	50 dB	80 dB
Group delay	< 7.1 μs	< 10.2 μs
Gain regulation	Automatic decrease of the gain to guarantee a good transmission signal if the reception level is too low or deterioration of the antennas isolation	



# Solution for Digital TV coverage

## DVB-T/H/T2 & ISDB-T Micro-Gapfiller Indoor

Mechanical Features	1W	5W	10W
Control and monitoring	WEB, SNMP Remote control by GPRS (optional) SELECOM Network Management Station (optional)		
Maintenance	All the modules are full band and can be easily replaced		
Architecture	19" rack		
Dimensions	H :2U × L : 19" × P : 600 mm		
Weight	< 15 kg		
Cooling	Forced convection (internal fan)		
Power supply range	85-265 VAC		
Power consumption	40 W	55 W	150 W
Coaxial standard connectors	N female		
Temperature	+5°C to +45°C		