



Application

- DVB-SH coverage enhancement
- Indoor areas : Shopping malls, Exhibition Centers, Subway, etc...

Key Features

- Echo canceller (optional)
- ETS 120 584 compliant
- Outdoor case IP65
- Channel Filter included
- HTTP, SNMP server
- Remote control by GPRS

Benefits

- No shelter needed
- Cost effective solution
- Fast and easy deployment

Contact us

- protel@protel.it
- www.protel.it

Solution for Mobile TV coverage

Gapfiller DVB-SH 1W



To ensure DVB-SH coverage everywhere

This equipment, in accordance with the ETSI TS 102 584 standard, is designed to provide coverage of DVB-SH in indoor areas such as Tunnel, Parking, Shopping Mall, etc...

It allows the reception and the selection of a window from 1 to 6 channels 5 MHz in the DVB-SH band. The channel is then amplified with high gain, and re-broadcasted on the same channel.

The optional echo cancellation can reduce the rules of engineering at the installation by limiting the Larsen effect, whether the conditions for isolation of antennas are difficult to reach.

The equipment is locally controlled by web and SNMP server, and can be equipped with an optional GPRS modem.

A complete offer: turnkey sites kits, electrical cases, masts, cabin protection, etc... are available optional.



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Quality Model FP1004D / ed 27 / 07 / 2011

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Solution for Digital TV coverage

Gapfiller DVB-SH 1W

RF Features	
Standards	DVB-SH ETSI TS 102 584 compliant
Input / Output Frequency	2170 MHz - 2220 MHz
Operating Bandwidth	Adjustable window from 5 to 30 MHz
Gain	Adjustable from 50 to 80 dB
Ripple in bandwidth	$\leq \pm 2$ dB
Selectivity	With FIR digital filter 30dB @ ± 350 KHz 45dB @ ± 1.1 MHz 55dB @ ± 10 MHz (can be modified by FIR filter update)
Output power level	1 Wrms
Spurious emission	$\leq - 30$ dBm
ACLR Adjacent Channel Leakage power Ratio	45 dBc @ 5 MHz 50 dBc @ 10 MHz
Noise figure @ max gain	≤ 6 dB



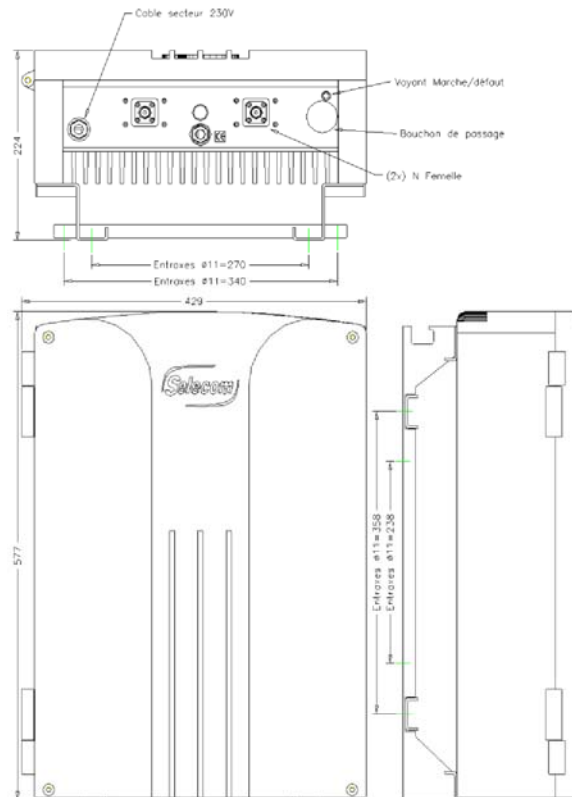
Solution for Digital TV coverage

Gapfiller DVB-SH 1W

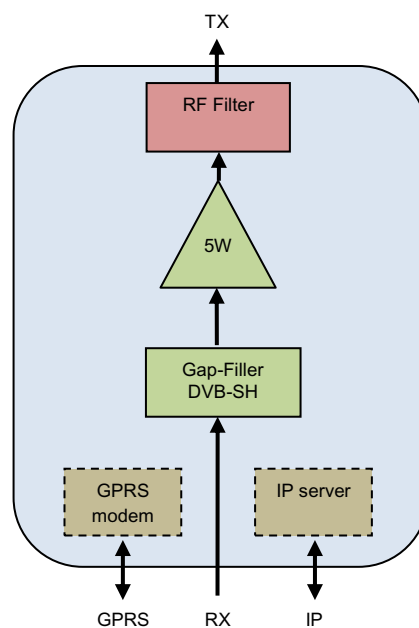
Mechanical Features	
Maintenance	All the modules are full band and can be easily replaced
Architecture	Outdoor cabinet
Dimensions	H582×L429×P224 mm ³
Weight	28 kg
Fastening	On wall or on mast
Protection against corrosion	Aluminum treated against the oxidation and painted
Ingress Protection	IP65
Cooling	Natural convection
Power supply range	85-265 VAC or 48 VDC
Power consumption	150 W
Coaxial standard connectors	7/16 female
Temperature	-30°C to +45°C
Control and monitoring	1 LED Green (Normal) / Red (Major alarm) + 1 yellow LED (minor alarm) WEB, SNMP Remote control by GPRS (optional) SELECOM Network Management Station (optional)







Ordering Code	Designation
GF-DVBSH-1	Gapfiller DVB-SH 1W
GF-DVBSH-AIR	<i>Advanced Insulation Repeater</i> TM Option (echo canceller)

Mounting Plan



Synoptic



Options	
<p>Cabin protection</p> 	<ul style="list-style-type: none"> ✓ Protection against Sunlight and Rain ✓ Compatible with all SELECOM Repeaters ✓ Easy installation ✓ Support for laptop or measuring device
<p>Electrical Case</p> 	<ul style="list-style-type: none"> ✓ Outdoor case ✓ Cost effective solution ✓ Isolation Transformer ✓ GFCI ✓ Re-starter ✓ Service Outlet ✓ CE compliant ✓ Custom design on request
<p>GPRS Modem</p> 	<ul style="list-style-type: none"> ✓ For the remote control via GPRS network
<p>NMS (Network Management System)</p> 	<ul style="list-style-type: none"> ✓ NMS software manages a complete network of different SELECOM equipment ✓ Screens with complete status and reports ✓ Location on a map of each equipment ✓ SMS, EMAIL alerts ✓ Equipment control in case of needing
<p>Solar panels</p> 	<ul style="list-style-type: none"> ✓ Free Energy ✓ Battery for autonomy in case of lack of sunlight ✓ Automatic relay to standard power supply ✓ Ecological solution
<p>Turnkey sites kits</p> 	<ul style="list-style-type: none"> ✓ Donor & Emission antennas ✓ Feeders ✓ Grounding kits ✓ Wood and metallic masts ✓ Lightning protection ✓ Electro-technical kits