



Application

- DVB-T/-H/-T2 & ISDB-T deployment
- Coverage enhancement
- Mountainous and rural areas

Key Features

- Echo canceller -15 dB
- Automatic digital precorrection
- HTTP, SNMP server
- Channel Filter included
- 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 Digital TV coverage

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



DVB-T **DVB-H** **DVB-T2** **ISDB-T**

All-in-one Outdoor DVB & ISDB Gapfiller Station

A whole integrated solution: a complete gap-filler module with 1W or 5W amplifier, a channel filter and a monitoring module with HTTP and SNMP server, in a single outdoor case.

A low installation cost: easy engineering rules thanks to the high sensitivity of the system allowing to re-broadcast a low level signal (up to -72dBm) and the high efficient echo-canceller system allowing an easy antennas installation.

A low ownership cost: any shelter is needed, only 4 m² floor with concrete slabs in case of mast-mounting, only a 4 m² wall in case of wall-mounting.

A connected solution: embedded WEB & SNMP server, friendly GUI, remote control through IP network or optional embedded GPRS modem. Network Management System is available.

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



147 – Single DVB-T/-H/-T2 & ISDB-T Gapfiller Station 1W-10W – ed11 – 10/2011

Quality Model FP1004D / ed 27 / 07 / 2011

DISTRIBUTORE PER L'ITALIA :

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Solution for Digital TV coverage

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

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	



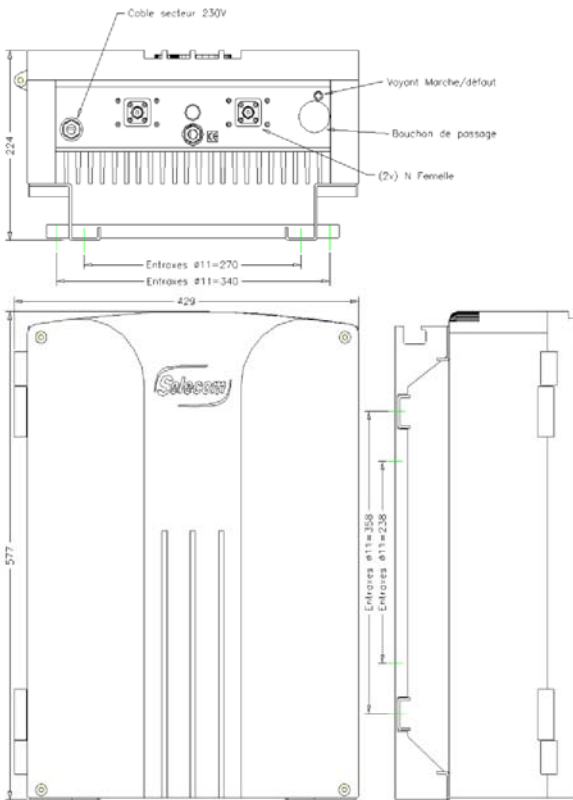
Solution for Digital TV coverage

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

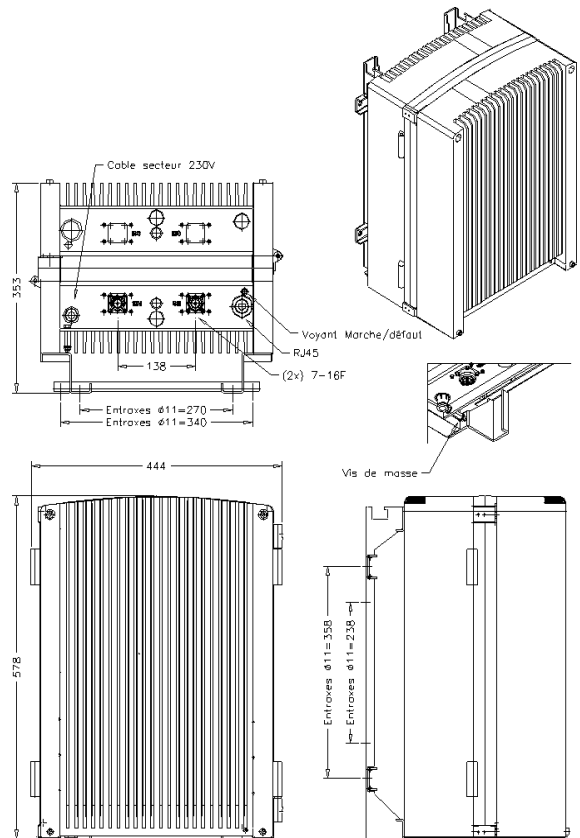
Mechanical Features	1W	5W	10W
Control and monitoring	WEB, SNMP Remote control by GPRS (optional) SELECOM Network Management Station (optional)		
Maintenance	All the modules are full band and can be easily replaced		
Architecture	Outdoor cabinet		
Dimensions	H582×L429×P224 mm ³		H582×L426×P352 mm ³
Weight	28 kg		49 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		
Power consumption	40 W	55 W	150 W
Coaxial standard connectors	N female		
RF Combining	Non adjacent channels : star-point combining filter Adjacent channels : manifold combining filter		
Temperature	-30°C to +45°C		

Ordering Code	Designation
GX-DVB-SOS-x	Output Power : <ul style="list-style-type: none"> • 1W => x = 1 • 5W => x = 5 • 10W => x = 10
GX-DVB-OPT-MFN	Hardware option for MFN

Mounting Plan

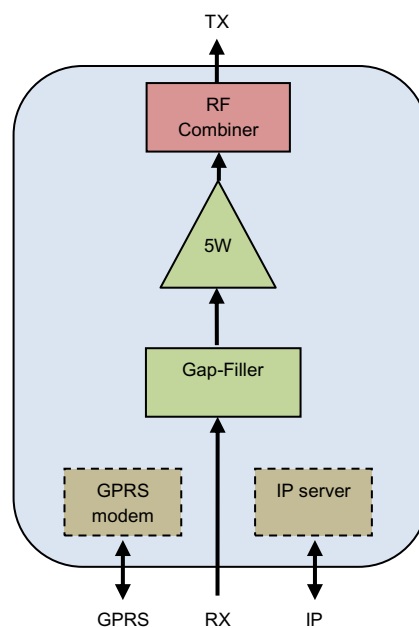








Version 1W & 5W



Version 10W

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