

Get MORE from your NETWORK.



KEY FEATURES

- ☑ Increases the network downstream capacity by 650 MHz.
- ☑ Supports a total of 500MHz of upstream capacity.
- ☑ Passive transfer of legacy bands featuring fail-safe continuous legacy service.
- ☑ Equipped with power level control (AGC/TGC) providing high stability over extreme temperature changes.
- ☑ Excellent RF characteristics enable seamless integration to all the legacy cable networks.
- ☑ Triplex filters supply optimal performance within all operating spectral bands.
- ☑ Phase-locked block multiplexer and demultiplexer technology and the use of a pilot ensure excellent amplitude stability, frequency accuracy and frequency stability.
- ☑ Interfaces with all standard node devices.
- ☑ Very modular and easy to set up.



XFR3000/XFR3000S

UltraBand™ Bi-Directional Amplifier

The UltraBand XFR3000/XFR3000S is a wideband bi-directional amplifier unit that is co-located with the current legacy amplifier. The XFR3000 multiplexes one Vyvo downstream block and one Vyvo upstream block with legacy block (5-1003MHz) onto one coaxial cable output.

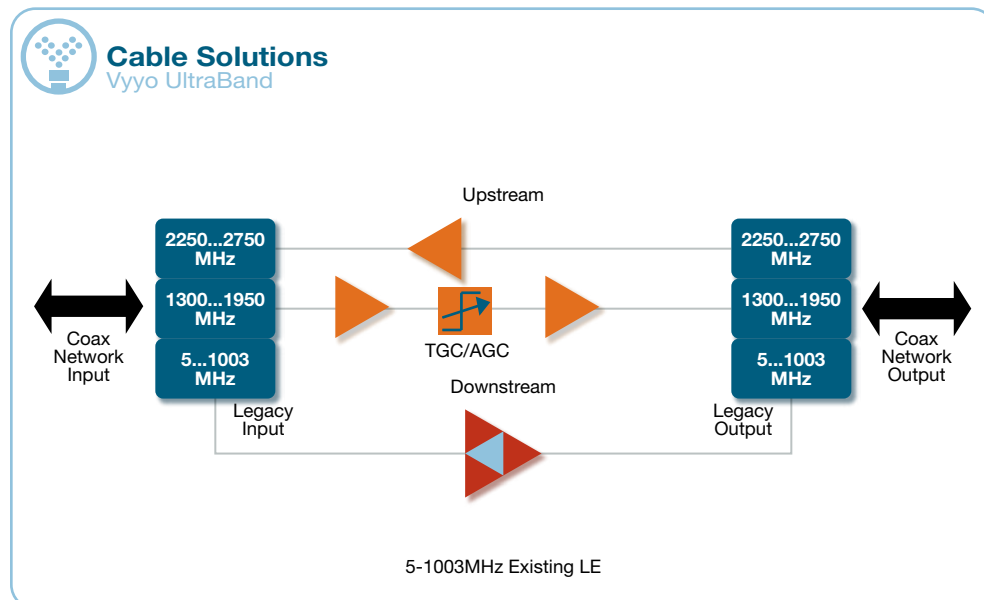
In the UltraBand downstream, the XFR3000/XFR3000S receives up to 650MHz of bandwidth from the Vyvo XHUB3006 and, through a Vyvo's block amplifying technology, amplifies with low distortion and multiplexes it onto the coax network. In the upstream, the XFR receives up to 500MHz within the UltraBand upstream frequency plan and amplifies the discrete upstream blocks.

The XFR uses a patent-pending amplifying block technology. This technology combined with the use of a pilot, ensures excellent amplitude stability. Advanced MMIC amplifier technology is used for superior RF performance.

XFR3000/XFR3000S modular triplex internal filters are used to ensure best performance within all operating spectral bands. The triplex filter is a passive module designed with excellent group delay, high isolation and low insertion loss for all legacy/Vyvo upstream and downstream bands. An additional benefit of the triplex filter is the increased surge protection between the XFR3000 and the coaxial network.

The XFR3000 is set at the factory for 7dB output tilt at the Vyvo Downstream.

The XFR3000S is set at the factory for 1dB output tilt at the Vyvo Downstream.



XFR3000/XFR3000S

UltraBand Bi-Directional Amplifier

XFR3000 Specifications*

Parameters	Unit	CATV Band	Vyyo Downstream Band	Vyyo Upstream Band
Pass Band	MHz	5-1003	1300-1950	2250-2750
Operational Gain	dB	-0.9 ¹	46	46
Level Control TGC/AGC	dB	N/A	±3/±4	±3/NA
Gain Slope	dB	N/A	7	3
Flatness	dB	±0.15	±0.5	±0.5
Noise Figure ²	dB	N/A	10	7
Nominal Output Level ³	dBmV/6MHz	N/A	39/46	43/46
C/N In Band		N/A	49	51
Return Loss	dB	-18	-14	-14
Noise at 1003MHz	dBmV/Hz	-94	N/A	N/A
Plug In Equalizer (1 dB step)	dB	N/A	0-6	0-5
Plug In Cable simulator (1 dB step)	dB	N/A	0-10	N/A

XFR3000S Specifications*

Parameters	Unit	CATV Band	Vyyo Downstream Band	Vyyo Upstream Band
Pass Band	MHz	5-1003	1300-1950	2250-2750
Operational Gain	dB	-0.9 ¹	43	46
Level Control TGC/AGC	dB	N/A	±3/±4	±3/NA
Gain Slope	dB	N/A	1	3
Flatness	dB	±0.15	±0.5	±0.5
Noise Figure ²	dB	N/A	10	7
Nominal Output Level ³	dBmV/6MHz	N/A	42/43	43/46
C/N In Band		N/A	49	51
Return Loss	dB	-18	-14	-14
Noise at 1003MHz	dBmV/Hz	-94	N/A	N/A
Plug In Equalizer (1 dB step)	dB	N/A	0-6	0-5
Plug In Cable simulator (1 dB step)	dB	N/A	0-10	N/A

Additional Specifications

Parameter	Unit	Spec
RF Test Point	dB	20±1.0
Hum Modulation at 15A	dBc	70
Power Consumption	W	31
AC Input Voltage	VAC	38-90
AC Current Draw		
@90VAC	A	0.60
@60VAC	A	0.76
Housing Dimensions (L x D x W)	inch / mm	14.6 x 10 x 5.6 / 371 x 255 x 143.5
Weight	lbs / Kg	15.4 / 7.0
Operating Temperature	°F / °C	-40 to +140 / -40 to +60
Connectors		5/8" x 24 threads per inch

*All specifications are typical unless otherwise noted.

*In the interest of product improvement specifications are subject to change.

¹ Typical insertion loss at 1003MHz per triplexer filter module.

² Measured with 0dB input attenuator.

³ Measured with 7dB positive tilt, 39 dBmV at 1300MHz.



6625 The Corners Parkway, Suite 100
Norcross, GA 30092
678.282.8000 Tel
770.447.2405 Fax
www.vyyo.com
cable@vyyo.com

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