



## XTB3000

UltraBand™ RF Multiplexer/De-Multiplexer

The UltraBand XTB3000 is both a downstream demultiplexing and upstream RF multiplexing unit that is co-located with the current legacy CPE devices. In the downstream, the XTB3000 receives up to 105 additional CATV carriers from Vyvo's XHUB3006 and through a patent-pending block division multiplexing technology, down converts the additional CATV carriers and places those carriers back to the original legacy band of 100-750MHz thereby increasing the downstream capacity of the coax network by 650 MHz. In the upstream, the XTB receives one discrete upstream block (10-42MHz) within the legacy upstream frequency blocks and then demultiplexes it onto UltraBand upstream frequency plan. The XTB3000 increases the system upstream capacity by adding 32MHz of bandwidth.

The XTB features two F-ports. Each provides separate downstream and upstream bands. One is the existing legacy connection (5-1003MHz) and the other is the new UltraBand downstream and upstream (at 10-750MHz).

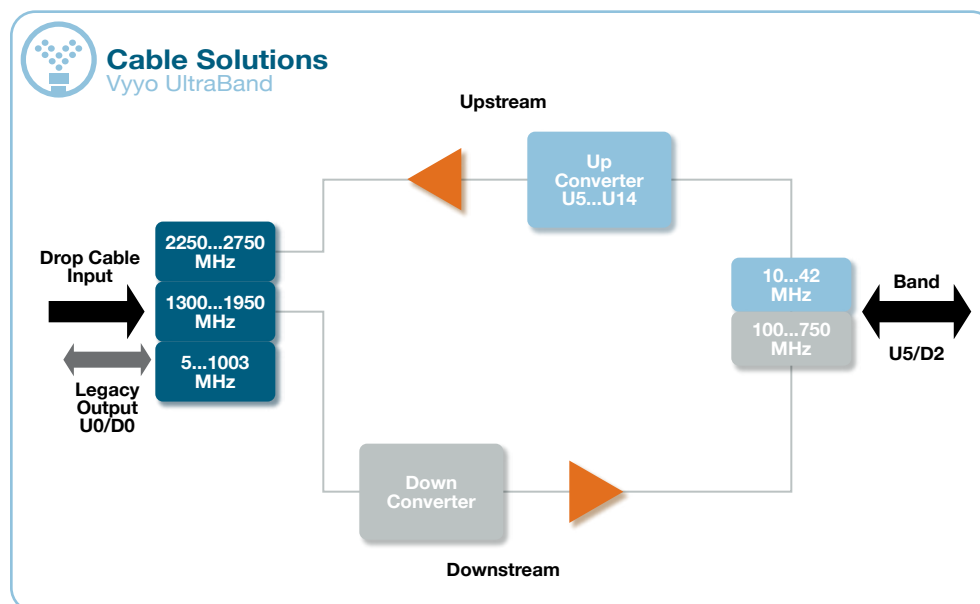
The XTB can be configured to operate on 1 to 10 UltraBand upstream frequency blocks (each a full 10-42 MHz), allowing for further return segmentation or frequency reuse.

Get **MORE** from your **NETWORK**.



### KEY FEATURES

- ☑ Increases network downstream capacity by providing an additional 650MHz.
- ☑ Increases upstream network capacity through providing an additional upstream block.
- ☑ Compatible with legacy CPE equipment.
- ☑ Passive transfer of legacy bands featuring fail-safe continuous legacy service.
- ☑ Excellent RF characteristics enable seamless integration to all the legacy cable networks.
- ☑ A triplex filter supplies 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.
- ☑ Indoor/Outdoor unit.



## XTB3000 Specifications\*

Downstream Specifications		
RF Input	Units	Specs
RF Input Pass Band	MHz	1300-1950
Nominal Input Levels	dBmV/6MHz	0
Conversion Gain	dB	20
Adjustable Attenuator	dB	14
Output		
RF Output Frequency	MHz	100-750
Flatness	dB/6MHz	±0.1
Nominal Output Level	dBmV/6MHz	10
Upstream Specifications		
Input	Units	Specs
Input Frequency	MHz	10-42
Conversion Gain	dB	8
Maximum Input Level	dBmV/3.2MHz	58
Input Return Loss	dB	-15
UltraBand Output		
Output Frequency	MHz	2250-2750
Conversion Gain	dB	8
Maximum Output Level	dBmV/3.2MHz	64
Legacy Specifications		
Pass Band Frequency	MHz	5-1003
Maximum Insertion Loss	dB	1.5
Return Loss (All Ports)	dB	-15
Minimum Isolation Between Legacy Band to UltraBand (100-750MHz)	dB	70
Additional Specifications		
Power Consumption	W	8
AC Input Voltage**	VAC (Hz)	90-240 (50/60)
Housing Dimensions	(L x D x H) inch	7 x 3.5 x 2
	(L x D x H) mm	180 x 89 x 51
Weight	lbs/Kg	1.76 / 0.8
Operating Temperature	°F / °C	14 to +122 / -10 to 50
Connectors		F-Type (All Ports)

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

\*\*External Power Supply



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