

VXT1300 Wireless HD Video Extender



Carrier-Grade, WiFi system for multi-stream HD IPTV Home Distribution

The Celeno VXT1300 video extender set is a carrier-grade WiFi based HD video system designed to reliably distribute multiple High Definition IP video streams (IPTV) throughout the home. This simple, robust multimedia home networking solution provides users with a high quality viewing experience. Consisting of the VXT1305 access point and multiple VXT1105 client adapters, this cost-effective WiFi solution eliminates the cost and hassle of installing new wires.

The VXT1300 enables reliable and robust connectivity of HD and SD IPTV streams from Ethernet-equipped broadband gateway or DVR to multiple IP set top boxes. Self-installable and fully interoperable with common IPTV servers, middlewares and set top boxes, VXT1300 allows operators to accelerate deployment schedules and reduce opex by eliminating expensive truck rolls.

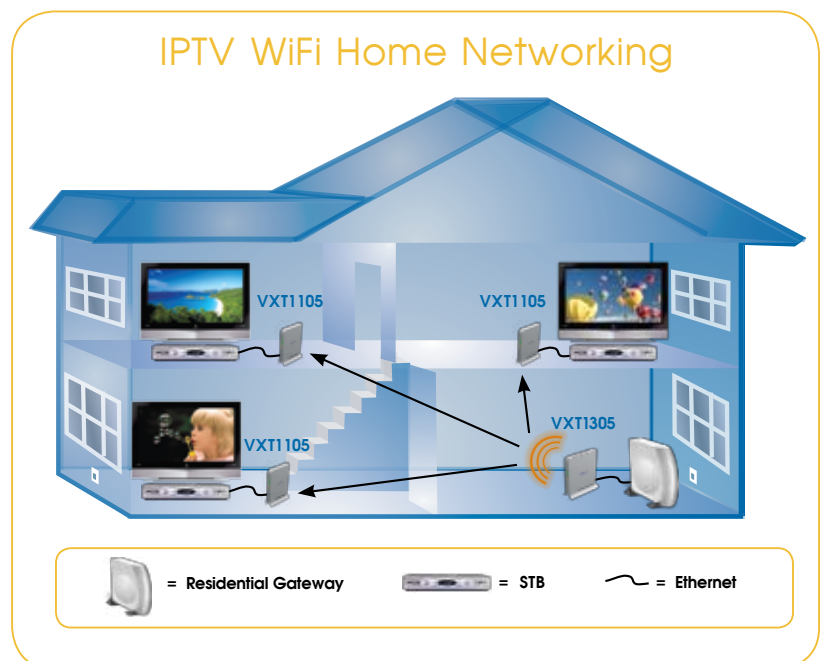


Enhancing the HD Experience

- Wire-like video experience
- Whole home coverage without dead spots
- Superior interference immunity and trouble-free co-existence with neighboring systems
- Supports up to four client devices
- Easily self installed with plug & play operation
- Unique "base station" approach enables VXT1305 AP to support migration to integrated WiFi set top boxes

Carrier-Grade Feature Set

- Real time Implicit Transmit Beam Forming MIMO and smart antenna diversity
- Real time wireless channel tracking for optimal rate selection and power control
- Advanced interference detection and fast automatic channel scanning and hopping
- Advanced regulatory requirements support including Dynamic Frequency Selection (DFS)
- IGMP snooping, Multicast to Unicast translation and WDS support for seamless IPTV network integration
- WPS for simple setup and security configuration
- Complies with EU CoC on energy consumption for broadband equipment 2009/2010



Specifications

Physical Characteristics

	VXT1305	VXT1105
Power (external power adapter)	12VDC, 1.5A	5VDC, 1A
Physical size (in cm)	(H) 17.8 (D) 15.3 (W) 3.8	(H) 15.5 (D) 10.9 (W) 3.7
Weight	450gr	300gr

Antennas: Internal antenna array with 4 Omni-directional elements (VXT1105 has a single antenna)

Ethernet ports: 100 Mbps, RJ-45 port, Automatic MDI/MDIX

LED display: Power, Ethernet, Wireless, Video link quality

Control buttons: WPS push button

Operating temperature: 0° - 40° C

Humidity: 10% - 90% (Non condensing)

Certifications: FCC (US), CE (Europe)

Management

Configuration: Web-based GUI management, CLI(Telnet), TR-069

Software upgrade: Web-based

WiFi

Operating frequencies: 4.9 – 5.8GHz, complies with 802.11h radar detection

Security: WPA2 (AES)

Channels: Country dependent for the following channel ranges: 36-64 , 100-140 , 149-165

Automatic transmit power control: Supported

Country specific power limits: Supported

Maximum transmitted power: 23dBm

OptimizAIR™ - Breakthrough Technology for Best Performance

Celeno VXT1300 employs cross-layer optimization of special PHY, MAC and smart antenna technologies to achieve dramatic increases in range and coverage, typically exceeding off the shelf 802.11n systems' HD performance by over 500%.

Industry-first Phased-Array transmit beam forming MIMO technology delivers long reach and high HD throughput with zero packet error rate. Unlike other solutions, the VXT1300 is completely channel aware with special silicon-based real-time processing that optimizes performance. It manages the radio power budget, transmission rate and detects noise levels to optimally deliver multiple HD video streams in the home.



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