

XLV-T TV-Gateway Product Line



Terrestrial DTV (MPEG-2&4) receiver & streaming over IP



XLV-T

Overview

The XLV -T is a novel device that combines reception of DVB-T broadcasts with MPEG2&4-over-IP encapsulation and streaming. The XLV-T is a perfect solution for streaming video/TV broadcasts over IP networks for Digital Signage, sales, entertainment, video surveillance, and e-learning purposes, among others. The device features high-performance DVB-T reception capabilities. Furthermore, the XLV-T incorporates DVB-T Transport Stream input technology and hardware acceleration, and simultaneous support from 1 transponder 2 up to all channels of video and audio. The XLV-T tunes to the channel using frequency or channel information. The input received from the channel is de-multiplexed, de-scrambled, and filtered. Selected video and audio channels are then multiplexed into a single-program Transport Stream, encapsulated in IP format, and streamed over a LAN. A personal computer or an IP set-top-box can be used for playback and recording. The whole process can be handled remotely through a web browser or command-line interface.

Highlights

Cost- effective DVB-T Receiver/MPEG2&4-over-IP Streamer

Stream over IP all live FTA channels from 1 transponder.

DVB-T Reception

Transport Stream de-multiplexing, de-Scrambling and PID filtering

MPEG-2&4 over IP streaming

Conversion MPEG- over DVB-T to MPEG Over-IP

Multicast and Unicast UDP

User- friendly HTML Control Interface

Support SAP (Service announcement Protocol)

IMPG (save bandwidth)

Benefits

Integrated solution – a single device handling MPEG-2&4 over DVB-T reception and streaming over IP networks.

Support for various stream-out formats – such as multicast or unicast in UDP. RTP is optional.

Flexible TV Streaming to an Ethernet LAN – the XLV receives DVB-T Transport Streams and channels them in real time over an IP network in multicast or unicast mode. Easy setup and integration with existing networks. Security – Receiver password protection adds increased security to the network. Fixed Key CAS is a standard feature of the XLV-T. NDS, NagraVision, Conax, and Irdeto Conditional Access supports may provide optionally. Other data security options are available, including IP level decryption.

Easy handling – the HTML interface allows remote control of the device through the Web in an intuitive and accessible manner.

VBox Communications Ltd is a provider of customer-premises receiver solutions for digital TV and data broadcasting networks. VBox products include PCI cards and USB boxes that provide digital TV reception capabilities such as handling of encrypted content for Pay TV services and delivery of high-quality video, audio, and data services. VBox also provides Routers and Gateways for receiving data and high-quality digital contents from digital broadcast infrastructures and distributing these over LAN.





XLV-T Product Line

Specifications

RF Tuner

External Connectors: F type female
 Receiving Frequency: 177 MHz to 858 MHz
 Channel Bandwidth: 7/8 MHz
 6 MHz (optional)
 Nominal Input Impedance: 75Ω

COFDM

Modulation: COFDM (QPSK, 16QAM and 64QAM)
 Mode: 2k and 8k FFT
 Guard interval: 1/4, 1/8, 1/16, 1/32

FEC

Decoding: Viterbi /Reed-Solomon
 Viterbi Inner Code: K=7, R=1/2, 2/3, 3/4, 5/6, 7/8
 Reed-Solomon Outer Code: (204, 188)

Data Handling and De-multiplexing

Multi-Protocol Encapsulation (MPE)
 Datagram and section packing
 Unicast/multicast filtering
 Multicast address filters :128
 UDP/TCP/IP protocols
 PSI/TCP private tables
 LLC SNAP/null encapsulation

Stream Output Formats

Standard: Transport Stream (TS)
 Announcement using SAP
Optional: Elementary Stream –ES
 Packetized Elementary Stream-PES
 Program Stream –PS
 Subtitle
 Streaming RTP
 Save to file
 Streaming from file
 EPG

Network

Streaming UDP Multicast/Unicast
 Infrastructure for streaming over any IP network

Optional Security

Fixed key CAS
 Optional conditional access
 Conax, Irdeto, NDS

LAN Interface

Connector: 1x RJ-45
 Speed: 10/100 Auto-Sensing
 Optional 1 Gps

LED Indicators

Power On
 LAN Led

Physical/Environmental Data

Size: (H x W x D):292x53x237 mm
 Operating Temperature: 0 C (32F)-40C (104 F)
 Storage Temp: -10C (14F to 85 C(185 F)
 Operating Humidity: 10% - 90%

Power Supply

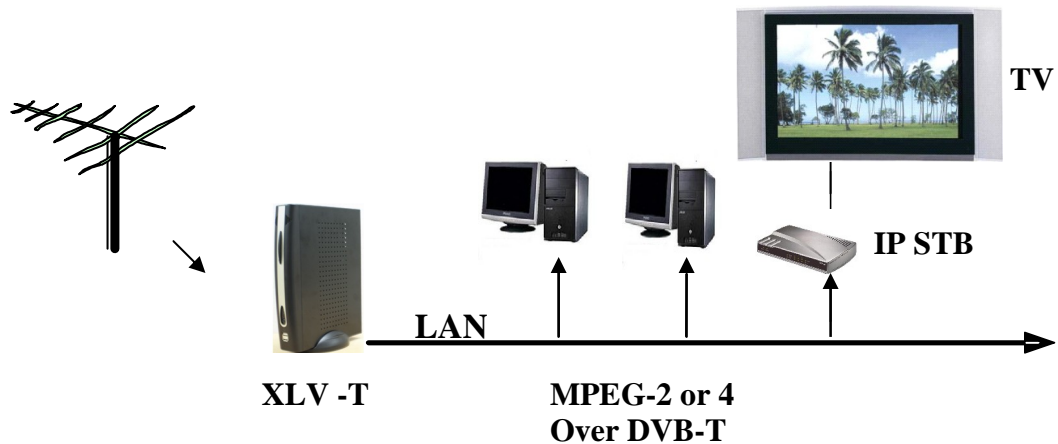
12DC adaptor
 Power input: 100-240 VAC
 Power frequency: 50-60 Hz
 Power Consumption: 50 W (typical)

Regulatory Compliance

UL, CE, FCC-Class B

Ordering Guide

Name	Channels	Data	CA
XLV-T 1220-2C	2	-	-
XLV-T 1220-4C	4	-	-
XLV-T 1220-NL	Unlimited	√	-
XLV-T 5220-2C-CA	2	√	√



VBox Communications Contact Information:
Marketing:
 Email: marketing@vboxcomm.com



www.vboxcomm.com

Digital Broadcast and Broadband Receiver