



@Box
Communications

XTI-2215

Enhancement IP-Gateway with Traffic Shaping



XTI-2215

Highlights

TCP Enhancement and HTTP Prefetching for efficient and high performance communications on high latency networks

Allowing distribution of the overall available bandwidth among services and end-users according to configurable

Ensure that the actual bandwidth assigned to each service or end-user

Easy central or per client management

Web-based Management application

Seamless integration into planned or existing infrastructures

Overview

Making use of satellite and mobile networks is one of the key factors to provide global IP network access to private and corporate users.

Unfortunately, TCP and HTTP, the most widely used protocols in the Internet, show very poor performance when being used over high latency and/or lossy networks.

The ideal solution to overcome such drawbacks is the XTI-2215. The integrated TelliNet TCP Enhancement technology accelerates not only TCP based transmissions over high latency networks, but also HTTP web browsing. In addition to this, the XTI-2215 offers a range of sophisticated features, such as advanced bandwidth optimization and reduction of data traffic by means of data compression and packet aggregation both on forward and return link. The use of TelliNet also secures satellite and mobile networks by the means of data encryption and conditional access.

The XTI-2215 also provides an embedded version of the TelliShape network policing engine, allowing distribution of the overall available bandwidth among services and end-users according to configurable criteria, e.g. prioritization of automatically-detected RTP-based VoIP sessions. The XTI-2215 can also be used to ensure that the actual bandwidth assigned to each service or end-user for transmission falls between guaranteed minimum and maximum allowed bandwidth levels, both configurable.

Benefits

The XTI-2215 web-based management application enables efficient setting and monitoring using different access privileges.

The XTI-2215 supports efficient administration using DHCP and WINS.

The XTI-2215 enables cryptographic secured, bandwidth efficient and high speed TCP and HTTP based transmission within broadband communications networks in general and within high latency and/or lossy networks in particular.

The negative effect of round-trip delays on the speed of data transmissions is minimized by the embedded TelliNet Enhanced TCP protocol and the truly distributed PEP based TelliNet HTTP Prefetching mechanism. Both significantly increase the bandwidth efficiency. Compared with many other acceleration techniques and products, the XTI-2215 carries IP based data transmission and web browsing applications much faster out and helps to utilize the available bandwidth in a more efficient manner – and therefore helps to reduce costs.

The XTI-2215 is easy to configure and provides a sophisticated web-based remote management and monitoring support function.

VBox Communications Ltd is a provider of customer premises receiver solutions for digital TV and data broadcasting networks. VBox's PCI cards and USB boxes provide a whole range of digital TV reception capabilities, including 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 the reception of data and high quality digital content from digital broadcast infrastructures and its distribution over LAN.





XTI-2215

Specifications

Network Protocol Support

Complete IP V4 stack and routing
 Static routing
 IP Multicast
 IP Fragmentation
 DHCP client/server
 Can compress automatically transmitted data (RFC-1951)
 PPP & PPTP
 NAT
 DNS and WINS servers

Network Interfaces

Connectors: two RJ-45
 Interface Protocol: Ethernet 802.3
 Bus Speed: 10/100 Mbps

LED Indicators

Power On
 LAN Led

Serial Ports

COM1: Command Line Interface for configuration

Return channel

V.90 - 56 kbps max over POTS (external option)
 ISDN - 128 kbps 2BRI channels (external option) PPP - RFC1661
 DHCP - RFC2131
 NAT - RFC1631
 Demand-dial

TelliNet Enhanced TCP

Performance Enhancing Proxy (PEP) as described by the IETF
 Internet standardization
 Supporting: HTTP, HTTPS, FTPviaHTTP, SOCKS and protocol independent port forwarding
 Reduced forward- and back-channel traffic through configurable compression and packet aggregation

TelliNet HTTP Prefetching

High performance HTTP (web-content) transfer over high delay networks (reduction of round trips required for download of HTML pages.)

Authentication

Encryption
 Conditional access
 Optional hardware dependent host keys
 Simplifying per user accounting

Remote Management

Web-based (HTTP) control

Physical/Environmental

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

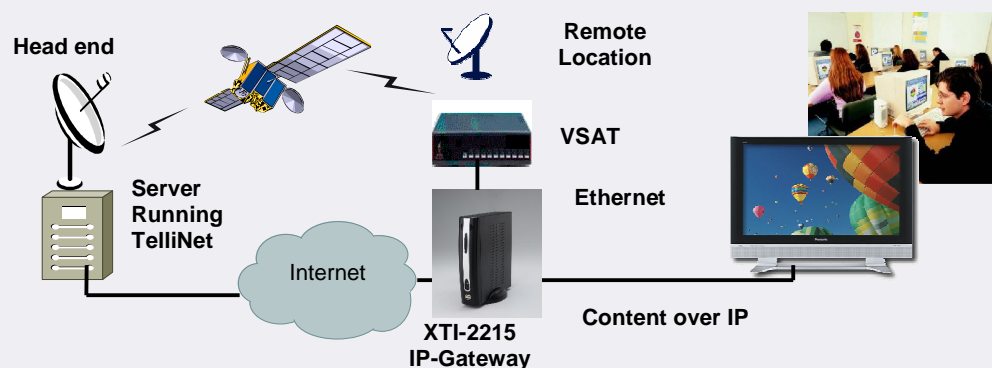
UL, CE, FCC-Class B

Routing Capabilities

IGMP Support (V1, V2)
 Versacast™ Technology
 Multicast Address Remapping
 Policy-based control over each inbound multicast and unicast stream
 TTL Modification
 Unicast Routing: RIP

TELLISHAPE Traffic policing

Allows to distribute the overall available bandwidth of a service among active clients, meeting the criteria defined by the service provider.

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