

CTX 1010 Ethernet ADSL2+Router

Product Specification

General Description:

The CTX1010 Ethernet ADSL2+ Router is a full-featured ADSL2+ Router, which provides 10/100Base-T and MDI/MDI-X auto sensing Ethernet to directly connecting to individual PCs or local area network. Offering easy installation and cost-effective connection for ADSL/ADSL2/ADSL2+ broadband access service.

The CTX1010 ADSL2+ Router provides the full rate maximum 24Mbps download speed with maximum 1024Kbps upload speed. The CTX1010 is a stand alone equipment which can be simply configured through TFTP and configuration file. Easy configuration function guarantees the best performance on CO settings. No need user intervention. SNMP allows you to manage the network on remote side and TFTP enables further feature enhancement and reconfiguration. Included DHCP server assigns IP addresses to all workstations on your LAN.

All products are made in TL9000 approved factory. The CTX1010 ADSL2+ Router complies with FCC part15 & part68 regulations and CE approval.

Features and Benefits:

- IEEE 802.3 and 802.3u over UTP (10/100Base-T & MDI/MDIX auto sensing) for easy installation and configuration
- Full rate operation with up to 24Mbps downstream data rate and up to 1024 Kbps upstream enables High-speed access to ISP or corporate network
- Friendly GUI Configuration and Management software
- Ongoing feature enhancements through TFTP download or upload of newfirmware and configuration files
- Supports multiple PVC up to 8 PVCs for RFC 1483 and ATM Forum UNI 3.0, 3.1 and 4.0 signaling for SVC
- Supports VPI/VCI auto-detection, full VPI range (8 bits, 0-255) and VCI range (16 bits, 0-65535) over PVC. VPI is limited to VPI 0 only over SVC.
- Enables end-to-end ATM support, which allows traffic management and QoS.
- Built-in DHCP server automatically assigns IP addresses to all workstations on your LAN.
- Remote management over EOC, PVC or IP with auto detection of transport channel.
- All management and monitoring can be done through SNMP or Telnet session.

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Creative Information eXchange

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Applications:

- High-speed Internet access sharing
- Videos (Media)-On-Demand
- Telecommuting
- Distance learning
- Work-at-Home
- Video conferencing
- Remote workgroup networking
- Corporate LAN access (VPN)

Specifications:

Data Connection

- **Downstream:** Up to 24 Mbps
- **Upstream:** Up to 1024 Kbps
- **Rate adaptive** in 32 Kbps steps
- **Connect distance:**
Up to 18,000 feet on 26 AWG wire

Communication Standards Compliant

- **ADSL** (with auto-detection):
- **ANSI T1.413** issue 2
- **ITU-T**
G.992.5 (ADSL2+) Annexes A, B, & M
G.992.3 (G.DMT.bis / ADSL2) Annexes A, B & M
- **Reach Extended ADSL2** (READSL2) as defined by ITU G.992.3 Annex L
G.992.2 (G.Lite)
G.992.1 (G.DMT) Annexes A, Annex B
G.994.1 G.hs, Multimode)
- Supports fast and interleave latency

Encapsulation Protocols:

- **RFC 1483/2684** (Multiple Protocol encapsulation over ATM PVC, Bridged & Routed PDU for LLC/SNAP & VC Mux)
- **RFC 1577/2225** (Classic IP over ATM)
- **RFC 2364** (PPP over ATM, only single-link PPP per VC)
- **RFC 2516** (PPP over Ethernet)

ATM:

- ATM Forum UNI 3.0, 3.1 and 4.0 signaling
- ATM Forum ILMI 4.0
- ATM Forum LANE 1.0 client, MTU=1516, over SVC only
- ATM supports AAL5, AAL3/4, AAL2 and AAL0
- ATM Traffic shaping supports CBR, GFR, UBR, VBR-rt and VBT-rt
- OAM F4 and F5 segment end-to-end loop-back (F4 on all VPIs, F5 on VPI 0 only)

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Bridging:

- Transparent bridging as specified in IEEE 802.1D
- Support spanning tree algorithm and protocol.
- Supports ZIPB (zero installation PPP bridge) mode, in which the device operates as a bridge without requiring a PPPoE client installation on the user's PC.

Routing:

- **RIP** version 1(RFC 1058) and version 2(RFC 1723)
- **ARP** (RFC 1293, supports only one single subnet)

Security:

- **IP filter** (Private/Public/DMZ) and MAC-level packet filtering to accept/deny packets
- **Firewall:**
- **Black List**
- **Attack Protection**
(IP spoofing, Tear Drop, Smurf and Fraggle, Land Attack, Ping of Death)
- **DoS protection** (SYN DoS, ICMP DoS, Per-host DoS protection)

Network Address Translation (NAT), NAPT (IP Masquerading):

- Provides up to 1024 NAT translation sessions
- Provides ALGs to supports most major applications, such as FTP, SNMP, ICMP, H.323, L2TP, ICQ, CUSeeMe, Quake and MRC.

VPN (pass through): PPTP tunneling, L2TP

PPP authentication: PAP (RFC 1334) and CHAP

Management and Monitoring:

- DSL Forum TR37-compliant autoconfiguration using ILMI to set up access protocols (e.g., PPPoE, PPPoA) and other settings
- AutoDetect feature enabling automatic configuration of VCI/VPI values
- Update firmware or configuration data over TFTP/ FTP
- **DNS** Relay and client & **DDNS** (Dynamics DNS)
- **BOOTP** (RFC 2131, RFC 2132)
- **SNMP** version 1(RFC 1155, RFC 1157, RFC 1213) over IP, EOC and ILMI VCC
- Command line Interface (CLI) configuration thru Telnet session over LAN or WAN
- Web-based Configuration
- Password protection from access configuration manager
- Reset to default settings by reset button
- Dying Gasp supported (optional)

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Supported Client/Server Applications

- **FTP and TFTP** revision 2(RFC 1350) client/server
- **TELNET server** (RFC 854, 855, 857, 858)
- **HTTP server**
- **DHCP** (RFC 2131, RFC 2132) server for LAN, relay and client for WAN (DHCP server and client can't be enabled simultaneously)

Supported OS

- **Ethernet port supported:** Windows 95, 98, Me, 2000, 2003, NT4.0, XP, Apple Mac OS, UNIX & Linux
- **USB port supported (optional):** Windows 98, 98SE, Me, 2000, 2003 and XP

Certifications

- FCC part 15 & 68, CE mark

Interfaces

- **LAN:** Ethernet: 10/100Base-T & MDI/MDI-X auto sensing Ethernet port through RJ-45 connector
- **ADSL:** ADSL line through RJ-11 connector

Power consumption

- 6W max. through 9VDC 1000mA power adaptor

Mechanical

- **Size (app.):** 153mm(width) x 109mm (depth) x 29mm (height)
- **Net weight (app.):** 220 g

Environmental

- **Operating temperature**
0°C ~ 40°C ambient
- **Humidity**
5 % ~ 95 % (non-condensing)
- **Storage temperature**
-20°C ~ 60°C