



CombiTel™
INTERACTIVE MULTIMEDIA SYSTEMS

CT-9100 Series Broadband Access Gateway

FEATURES:

Purpose-built for Convergence, Wireless, Digital Video Transport and Broadband Access applications

Wintegra™ WinPath™ WIN787-233 MHz Packet Processor: Revolutionary design purpose-built for high-end access networking yielding multimillion packet processing per second. ATM to Ethernet interworking function bridges ATM and Ethernet networks.

High degree of configurability via:

- Industry standard command line interface (CLI)
- SNMP for fault management

Primary network interfaces available

- Up to 4 OC-3/STM-1 ports
- One OC-12/STM-4 port (future)

Secondary network interfaces:

- Dual 10/100/1000 Auto-sensing Ethernet ports for management and Data
- DVB ASI (future)

Present multiprotocol support and protocol interworking via application software include:

- ATM (AAL5)
- MPEG-2 TS (Packet Size: 188 Bytes)
- Gigabit Ethernet
- RFC 1483/2684/1577 Bridging and Routing

APPLICATIONS:

- **MPEG Transport Stream Gateway**
- **DSLAM & CMTS Access**
- **Wireless Access Gateway**

Designed to meet the needs of both connection oriented and connectionless packet-switched networks, the new **CT-9100** series is by far the industry's most advanced, performance/price maximized solution for multi-protocol interworking applications. The **CT-9100** solution yields multimillion packet processing per second, enabling a five-fold improvement in performance/price ratio over alternative gateway solutions for broadband access networks.

Functioning as a gateway-in-a-box solution, the new **CT-9100** incorporates an internal network processor core based on the powerful Wintegra Winpath processor, housed in a 1RU enclosure. The **CT-9100** focuses on ATM to Ethernet interworking using OC-3/STM-1, OC-12/STM-4, and Gigabit Ethernet interfaces, with support for compressed digital video and audio transport encapsulated in MPEG-2 Transport Stream.

Specifically in ATM-based networks, the architecture of the **CT-9100** achieves unparalleled levels of performance in ATM Adaptation Layer 5 (AAL5) and Ethernet protocol processing to provide a seamless bridge between ATM and Ethernet networks.

Enclosure

- 1U high chassis, 19" rack-mountable, 442 mm deep
- Power: -48 V DC, 54 Watt
- Guarded power switch and reset button
- Indicators: "Link Active", "Board Operational"
- Chassis Fan Monitoring
- Operating Temperature: 0 to 55°C
- Relative Humidity: 5% to 95% non-condensing
- Nett Weight: 4.25 kg

Interfaces

- Dual Gigabit Ethernet ports for management and data
- Additional network interfaces available:
 - One, two, or four, OC-3/STM-1
 - One OC-12/STM-4 port interface bridged to the dual Gigabit
 - Software selectable feature on all interfaces enables port selection of international interface variants without changing hardware components
- OC-3/STM-1 and OC-12/STM-4 Interfaces available in multimode fiber and single mode fiber (intermediate and long range)
- OC-3 supported for ATM/POS depending on configuration. OC-12 support for ATM.

Configurations

- Applications: ATM to Ethernet bridging, IP routing
- Interfaces: OC3 / STM-1, OC12 / STM-4, DS3
- Optics Options: SMF=Single Mode Fiber, MMF=Multimode Fiber, LR/IR= Long Range/ Intermediate Range, GE=Gigabit Ethernet

Management and Configuration Tools

The CT-9100 ATM/IP Gateway includes a command line interface (CLI) for managing and configuring the product to meet specific needs. The CLI is available via TTY console or remote shell telnet session and offers several levels of access dependent on user privileges.

The CLI tool enables modification of the following parameters:

- Controller configuration
- Interface configurations
- ATM Virtual Circuit (VC) class configuration
- Bridge configuration
- MPEG-2 TS mapping

An internal SNMP agent is currently available with support for the physical layer OC-3/STM-1 MIB (RFC 2558).

Application Software Packages

- ATM AAL5 via OC-3/STM-1 or OC-12/STM-4 bridging with IP over Gigabit Ethernet (RFC2684)
- IP Routing per RFC2684 ATM/POS OC-3/STM-1 or ATM OC-12/STM-4
- MPEG-2 Transport Stream Packet Mapping

Processors

WinPath: 233Mhz
PowerPC™ 750GX: 800Mhz

Memory

128 – 256MB SDRAM (subject to configuration)
8 – 16MB Flash (subject to configuration)

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