

VIADUX™ 8000 Broadband Gateway

KEY FEATURES KEY BENEFITS SPECIFICATIONS

VIADUX 8000 Broadband Gateway

Viadux 8000 Broadband Gateway allows you to rapidly deploy data, voice, and video services from any wide area network to any building, and leverage the existing twisted-pair infrastructure for fast ROI.



Viadux 8000 Broadband Gateway is a symmetrical IP-based in-building access concentrator, ideal for multi-tenant and campus environments. It offers exceptional flexibility with quality of service, managed bandwidth and advanced IP features including Network Address Translation (NAT) and Dynamic Host Configuration Protocol (DHCP). In addition, the Viadux 8000 provides integrated routing and bridging on the same platform.

KEY FEATURES

Full service support features:

- Per-subscriber bandwidth management
- Per-port IP address management including NAT and DHCP
- IP routing and bridging capabilities
- Voice prioritization using IP Type of Service (TOS) byte for VoIP service
- Frame Relay Quality of Service (QoS) and traffic management

Flexible, scalable and future proof platform:

- Optional Viadux LongReach® Ethernet connecting roof-top based wireless radio
- Optional Viadux AnyPair® solution enabling services over existing, in-use phone lines
- High scalability with 8, 16, and 32-port SDSL models
- Plug-and-play operation with Viadux 2000 Subscriber Bridge and seamless integration with Viadux 1100 Subscriber Router
- Wide range of network interfaces: Ethernet 10/100, T1/E1 Frame Relay or MLPPP
- Voice prioritization using IP TOS byte

Easy-to-use remote management:

- Remote provisioning, diagnostics and monitoring
- Menu-based User Interface management tool
- SNMP RFC1213 MIB II, Enterprise MIB and SNMP traps

Essential security features:

- Enhanced access control and management
- Privacy between subscribers

KEY BENEFITS

Increase your service revenues with:

- Broadband data, voice and video services to multiple subscribers simultaneously
- Tiered pricing and bundling of services
- Service Level Agreement (SLA) requirements
- Policy server support services

Reduces your cost and time of deployment with:

- Lower operational expense (OPEX) for Broadband wireless access
- Viadux LongReach Ethernet to hard-to-reach customers in wiring challenged buildings
- No additional wiring or rewiring required, as services are enabled over existing, in-use wires
- Lower capital expense (CAPEX)
- Faster return on investment (ROI)
- Pay-as-you-grow strategy with Viadux's low-cost market entry and scalable solution
- Integrated CPE solution
- Voice-ready platform

Reduces your operational expenses (OPEX) with:

- Reduced truck rolls for provisioning and maintenance
- No expensive operational training required
- Improved end-user satisfaction
- Easy configuration

Protects you and your customers from:

- Service theft, non-payment for service, subscription fraud
- Unauthorized access to confidential and proprietary information

IP Routing

- Per-port NAT
 - Multiple private IP addresses can be mapped to a single registered IP address
 - Blocks unwanted public access to subscribers' private networks
- Per-port DHCP server for each subscriber interface (auto IP option)

Bridging

- Forwards MAC/IP frames between WAN and subscriber interfaces
- Compatible with leading vendor PPPoE subscriber management systems
- Transparent learning bridge

QoS Support

- IP TOS voice prioritization
- Frame Relay PVC prioritization

Bandwidth Management

- Per-interface subscriber rate limiting via DSL line rate
- Subscriber rate limiting via Frame Relay traffic management

Interoperability

- Compatible with Viadux 2000 Subscriber Bridge, Viadux 1100 Subscriber Router, and leading SDSL CPEs
- Compatible with VoIP Multimedia Terminal Adapters (MTAs), Integrated Access Devices (IADs), and voice gateways

Management

- Menu-driven user interface
 - Remote and local access
 - Full configuration control
 - Status and statistics
- SNMP
 - Enterprise MIB
 - RFC1213 MIB-II
 - RFC1604 Frame Relay MIB
 - RFC1406 DS1/E1 MIB
 - RFC2665 Ethernet MIB
- Command Line Interface (CLI) via
 - Craft (RS-232) interface
 - Telnet and FTP

Diagnostics

- LED status indicators for all traffic ports
- Subscriber and WAN port diagnostics
- Operational and equipment faults are logged and viewable via SNMP traps

Subscriber SDSL Interfaces

- 8, 16, or 32 ports, cascade units to achieve higher port count
- Protocol: Frame Relay (RFC 1490 MAC/IP)
- RJ-48C connectors
- Data rate up to 2.32 Mbps full duplex
- Distance up to 17,000 feet / 5181 m

Ethernet Interface

- One 10/100 Ethernet port
- IEEE 802.3 compliant
- RJ-45 connector

T1 WAN Interface

- Two or four T1 interfaces with built-in CSU/DSU
- ANSI: T1.102 & T1.403
- AT&T: TR62411
- Protocol: Frame Relay (RFC 1490 MAC/IP) or MLPPP
- Up to four T1s per MLPPP group
- Line Rate: 1.544 Mbps
- RJ48C connector
- SF(D4) or ESF framing
- Unchannelized payload
- B8ZS line coding
- Short haul (DSX-1) and long haul (NI) LBO
- PRMs and loopback support

E1 WAN Interface

- Two or four E1 interface with built-in CSU/DSU
- ETSI: ETS 300 233 & ETS 300 011
- ITU-T: G.703
- Protocol: Frame Relay (RFC 1490 MAC/IP) or MLPPP (RFC 1990)
- Up to four E1s per MLPPP group
- Line rate: 2.048 Mbps
- RJ48C connector
- CRC-4 or Non CRC-4 framing
- Unchannelized payload
- HDB3 Line Coding

Craft (RS-232) Interface

- DB9M, DTE, 38400/N/8/1

Physical Dimensions

- 19" rack or wall mountable 2U chassis
- Height 3.5 in / 8.9 cm
- Length 12 in / 30.5 cm
- Width 13.75 in / 34.9 cm
- Weight 11.5 lbs. / 5.22 kg

Environment

- Operating temp: 32° to 131°F / 0 to 55°C
- Storage temp: -13° to 140°F / -25° to 60°C
- Relative humidity: 5 to 90%, non-condensing

Safety

- UL & cUL per UL1950, 3rd Edition
- CSA C22.2 No. 950-95
- IEC 60950 2nd Edition plus A1 – A4
- CB Certificate

EMI

- Federal Communication Commission (FCC) Part 15, Class A
- Industry Canada, ICES-003, Class A
- EN55022, Class A

Telecommunications

- FCC Part 68
- Industry Canada CS-03
- E1: CTR12 and ETSI TBR12

Immunity

- EN 55024

Power

- 90 to 240 VAC, 50 or 60 Hz, auto-switching
- 120 Watts typical

Viadux 8000 Model

- RC8000Plus

Viadux 8000 Options

- Viadux 2000 Subscriber Bridge, and Viadux 1100 Subscriber Router
- Viadux 300 LongReach® Ethernet
- Viadux AnyPair® Modules: Viadux 10, Viadux 10-HD

Products manufactured by Viadux
and distributed by Motorola.
To purchase, please contact:

