

CTDI Products

Features & Capabilities

- Symmetrical data rates from 192 kbps to 2.312 Mbps
- Software configurable T1 or E1 interface for Circuit Emulation Service (CES)
- IP Router enables IP packet routing using static or dynamic protocols
- Supports NAT/NAPT, PPP/NAPT, and DHCP server and client
- AAL1 to support legacy TDM equipment, AAL5 for data transport
- Supports RFC 1483 and 2364 encapsulation
- Up to 20 PVCs
- Supports IEEE 802.1D transparent, self-learning bridge
- Web-server interface for remote access/management – password lockout
- ServiceAware™ technology for maximizing available WAN bandwidth and verifying SLAs
- Model 6450A -E, supports 4-wire SHDSL

WANsuite 6410/30/50 A/AB ATM over SHDSL

A Flexible SHDSL Access Solution

An access device suited to support legacy equipment in a multi application environment the ATM over SHDSL solution allows for the continued use of existing TDM equipment at the customer's premise while the ATM network continues to grow and move further toward the network's edge. This next generation access device provides users with greater flexibility and capacity in a multi application environment than any other single purpose device on the market today.



A Cost Effective Next Generation Access Device

The WANsuite 6410/30/50 A/AB WAN Access products builds on the next-generation experience and history of our IAD product set. The series extends the popular Verilink line of customer premise equipment (CPE) into the ATM over G.SHDSL access space.

A Future Proof Investment

The WANsuite 6410/30/50 A/AB devices terminate a standards-based Symmetrical High-bit Rate Digital Subscriber Line (SHDSL) that originates from a Digital Subscriber Line Access Multiplexer (DSLAM) and provides interfaces for an end user's communications equipment. The Circuit Emulation Service (CES) support provides for encapsulation of TDM traffic from end user equipment into ATM cells for transport across the WAN to the DSLAM and on to the ATM network. Whether connecting a PBX to the CBR port for TDM voice traffic (AAL1) or an existing router to the serial interface for data (AAL5), the WANsuite series provides a cost effective CPE/CLE tool for today's small and medium sized businesses. The built in IP gateway enables IP packet routing throughout the LAN/WAN network architecture using a static routing configuration or dynamic routing protocols which reduces the need to purchase a costly external router. The unit is simple to configure and manage via the web based interface for remote access to diagnostics and reports.

Simplified Management

The WANsuite platform offers simplified, cost effective end-to-end network management capabilities. WANsight™ technology provides Web-based tools that simplify a network manager's role with superior network management ability and application readiness. The WANsuite platform provides service providers and enterprise customers the ability to verify SLAs, isolate performance problems, determine appropriate bandwidth needs, and monitor network trends to aid in future capacity planning.

Model	10/100 Base T Port	2Mbps E1 Port	Nx64K
WS 6450A, 2W SHDSL, 1DP, 1CBR, ETH	Yes	120 ohm 8-Pin Mod	Yes
WS 6450A-E, 2W/4W SHDSL, 1DP, 1CBR, ETH	Yes	120 ohm 8-Pin Mod	Yes
WS 6450AB SHDSL, 1DP, 1CBR(BNC), 1ETH	Yes	75 ohm BNC	Yes
WS 6430A SHDSL, 1DP 1 ETH	Yes		Yes
WS 6410A SHDSL, 1CBR 1 ETH	Yes	120 ohm 8-Pin Mod	
WS 6410AB SHDSL, 1CBR(BNC) 1ETH	Yes	75 ohm BNC	

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WANsuite 6410/30/50 A/AB Technical Specifications

WANsuite 6410/30/50 A/AB

- SHDSL IAD (200kbps – 2.320Mbps)
- T1 or E1 Circuit Emulation
- Asynchronous Supervisory Port
- 10/100Base-T Ethernet port (works with cross-over or straight-thru cable)
- Management via EOC (g.SHDSL related parameters), WANsight (web-based interface), local supervisory port
- QoS: CBR, UBR, VBRnt

Serial Interface (6430 and 6450 only)

- DB-25 connector
- DTE/DCE selectable pin assignments
- Supports RS-232, V.35, V.36, EIA-530, EIA-530A, and X.21
- Protocols: PPP, HDLC, AAL1, AAL5

Network Interface

- 8-pin modular (RJ45) connection
- Line Rate: 200 kbps to 2.320 Mbps
- Line Framing: ATM transport (G.991.2)
- Line Coding: Trellis Coded Pulse Amplitude Modulation
- Network Protocol: ATM
- AAL1 and AAL5
- Up to 20 PVCs (1 PVC for CES)
 - CBR Port (6450 and 6410 only)
 - 8-pin modular (RJ-45) or BNC available
 - E1 Mode
 - Line Rate: 2.048 Mbps
 - Line Framing: CCS, CAS, or Unframed
 - Line Coding: AMI or HDB3
 - T1 Mode
 - Line Rate: 1.544 Mbps
 - Line Framing: D4, ESF, or Unframed
 - Line Coding: AMI or B8ZS

Ethernet Interface

- 10/100 Base-T auto-sensing
- Auto-detection works with x-over and straight-through Ethernet cables
- Protocols: TCP/IP, RIPv1&2, OSPF
- IP Addressing: DHCP (client & server)
- Security: NAT, PAT
- IEEE 802.1D transparent, self-learning bridge

Management Interface

- EOC for SHDSL related parameters
- SNMP
- Embedded web server
- Telnet
- Local Supervisory Port (VT100)

Diagnostics

- Performance: 15 min, 24 hr, 30 day monitoring (sampled every second)
- Network Loop: SHDSL network loopback

Timing

- Network, AAL1 adaptive
- AAL1, Circuit Emulation Service (af-vtoa-0078.000)
- Mode: short haul, long haul

Mechanical

- Stand alone (Desktop)
- 11.8 in. (30.0 cm) W, 1.8 in. (4.6 cm) H, 8.3 in. (21.1 cm) D
- Weight: 0.83 kg (1.82 lbs)

Frame Relay/ATM (Serial Port Only)

- FRF.5, FRF.8

ServiceAware™ Technology

- G.SHDSL network interface
- Constant Bit Rate (CBR) port configurable as T1 or E1
- Serial port software-configurable for V.35, V.36, X.21, RS-232, RS-449, or EIA-530
- 10/100Base-T Ethernet port
- Asynchronous supervisory port

Power

- Power Supply: External 100-240 VAC, 50-60 Hz, auto ranging
- Power: 10 W max (27.4 BTU/hr)

Environmental

- Operating Temperature: 0 to 50 °C (32 to 122 °F)
- Storage Temperature: -20 to 65 °C (-4 to 149 °F)
- Humidity: 95% maximum, non-condensing

Regulatory - Compliance & Agency Approval

- These products comply with or have obtained Regulatory Agency approval at least against the following standards:
 - EMC - Emission - Class A: FCC Part 15, EN 55022:1998 + A1 + A2, AS/NZS CISPR22
 - EMC - Immunity: EN 55024:1998 + A1 + A2
 - Safety: UL 60950-1, CSA C22.2 No 60950-1, IEC 60950-1, EN 60950-1, AS/NZS 60950
 - Telecom: FCC Part 68, IC CS-03 Issue 8, AS/ACIF S043, G.991.2 Annex B

Model Numbers (LAN Side Ports Referenced)

- 6450A – Serial and CBR (8-pin) ports
- 6450A-E - 2W/4W SHDSL- Serial and CBR (8-pin) ports
- 6450AB – Serial and CBR (BNC) ports
- 6430A – Serial port only
- 6410A – CBR (8-pin) port only
- 6410AB – CBR (BNC) port only

Warranty and Support

- One (1) year warranty

