

CTDI Products

Features & Capabilities

- TDM, Frame Relay, PPP
- IP router enables IP packet routing
- In-line T1 probe capabilities
- WANSight™ – Web-server interface for remote access with password lockout
- Built-in service aware technology for real time measurement of bandwidth utilization, network delays and verifying SLAs
- Supports DHCP server and client
- NAT/NAPT PPP-NAPT for secure, flexible IP configuration
- Supports SNMPv.2 with email notification
- Supports up to 128 DLCIs
- Auto learn DSOs on a T1 circuit

WANSuite 5130 T1/FT1 CSU/DSU

A Flexible T1 Access Solution

An access device ideally suited to support legacy equipment and provide a solid migration path to IP, the CSU/DSU solution supports 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® series consists of intelligent WAN access devices, ranging from low-cost CSU/DSUs to fully Integrated Access Devices (IAD). The WANSuite 5130 is a highly intelligent, software-based T1/FT1 CSU/DSU with a network port, an asynchronous supervisory port; and a 10/100 Base-T Ethernet interface.

A Future Proof Investment

The WANSuite 5130 provides a migration path that protects existing network investments as you transition to emerging network services. As a next generation access device, the WANSuite 5130 provides T1/FT1 networking solutions to a variety of application related challenges.

These applications include intelligent CSU/DSU, leased line, TDM, Frame Relay, Frame Relay statistics and diagnostics, in-line probe, PPP, and IP routing. The integrated IP router enables the WANSuite 5130 to route IP traffic either statically or dynamically across LAN/WAN architecture, which reduces the need for costly routers and provides a one stop solution to meet requirements in an ever changing multi-application environment.

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	Description	WAN Ports	10/100 BaseT Port	Nx64K
WANSuite 5160	T1/FT1, 2DP, DSX Port, 1 ETH - Standalone	2 or 1 + DSX	Yes	Yes
WANSuite 5165	T1/FT1, 2DP, DSX Port, 1 ETH - Rack Mount (AS 2000)	2 or 1 + DSX	Yes	Yes
WANSuite 5130	T1/FT1, 1DP, 1 ETH - Standalone	1	Yes	Yes
WANSuite 7105	T1/FT1, 2DP, DSX Port, 1 ETH - Rack Mount (AS 2000)	3 or 1 + DSX	Yes	Yes

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WANsuite 5130 Technical Specifications

Serial Interface

- DTE Port: Software-selectable V.35, EIA-530, RS-232
- Data Rate: Sync: 1200 - 115200 bps and Nx64 (N=1 to 24); Async: 1200 - 115200 bps
- Connection: DB-25 female

Network Interface

- Line Rate: 1.544 Mbps (- 50 bps)
- Data Rate: Nx56/64 kbps to 1.536 Mbps, where N=1 to 24 DSOs
- Line Code: AMI or B8ZS
- Line Framing: D4 or ESF
- Protocol: TDM, Frame Relay, PPP
- Connection: RJ-48C jack, 100 ohms - 5%
- Input Signal: DS1, +1 to -27 dB (ALBO)
- Output Signal: 3.0 V
- Mode: Long-haul (T1), short-haul (DSX)
- DSX-1 Level: 0-110, 111-220, 221-330, 331-440, 441-550, 551-660, >661 ft
- Line Build Out: 0, -7.5, -15, -22.5 dB
- Line Protection: 1000 V protection, fused input and output per GR 1089
- Jitter Control: per TR 62411 and T1.403

Ethernet Interface

- Connection: 8-pin modular
- Compatibility: 10/100 Base-T, Autosensing
- Protocols: RIP1, RIP2, OSPF, TCP/IP, un-numbered

Advanced Features

- NAT/NAPT, PPP/NAPT
- DHCP server/client
- TCP server
- IP Host Access List

Management Interface

- WANsight (embedded Web-server interface), VT100, Telnet, SNMPv.2, local supervisory port, Ethernet port

Diagnostics

- Performance: 15-min, 24-hr, and 30-day monitoring (sampled every second)
- Email notification
- Originate Ping
- Network Loops: Line, Payload, or Maintenance
- DTE Port Loops: V.54 and Local
- BERT: Marks, QRSS, 511, 2047, 215, and Spaces
- T1 Performance Statistics: ES, SES, LOSS, UAS, CSS, BPVS, OOFs, AISS, RAS

Timing

- Network 1, Network 2, Internal, Serial 1, Serial 2

Mechanical

- Mounting: Desktop, rack, or wall
- Dimensions: 11.75 in. (29.8 cm) W, 1.86 in. (4.7 cm) H, 8.75 in. (22.2 cm) D
- Weight: 2.1 lb (0.97 kg)

Frame Relay Statistics Collected in 96 15-Minute Intervals

- Tx/Rx frames and octets
- Tx/Rx management frames and octets
- Rx frames with FECN, BECN
- Rx invalid frames
- Tx/Rx status inquiry frames
- Tx/Rx status response frames
- Rx invalid LMI frames
- Peak/Average throughput
- Rx frames with DE bit set
- Tx excess CIR and Be

ServiceAware™ Technology

- Layer 3 Statistics and Up: IP, PPP, TCP, UDP, FTP, TFTP, SNMP, RIP1, RIP2, BootP, SMTP, HTTP, ICMP, OSPF, L2TP, H.323
- Peak and Average Throughput on Up to 10 User Definable Filters: DLCI, IP address, or IP port number
- Top talkers

Verify Service Level Agreements (FRF.13)

- Frame delivery ratio
- Data delivery ratio
- Round trip delay
- Service availability in seconds

Power

- External 100-240 VAC, 50-60 Hz, auto ranging

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

- This product complies with or has obtained Regulatory Agency approval at least against the following standards:
 - EMC - Emission - Class A: FCC Part 15
 - Safety: UL 1950 3rd Edition, CSA C22.2 No 950:95
 - Telecom: FCC Part 68, IC CS-03 Issue 8

Warranty and Support

- One (1) year warranty

