

CTDI Products

Features & Capabilities

- 56/64k WAN access device/IP router
- TDM, Frame Relay, PPP
- IP router enables IP packet routing using static or dynamic protocols
- WANsight™ – Web-server interface for remote access with password lockout
- Supports DHCP server and client
- Built-in ServiceAware™ technology for real time measurement of bandwidth utilization, network delays and SLA verification
- NAT/NAPT, PPP/NAPT for secure, flexible IP configuration
- Support SNMPv.2 with email notification
- Supports up to 128 DLCIs
- Serial DBU
- APS on Data Ports

WANsuite 5339/5365

A Flexible and Feature Rich Solution

The WANsuite® 5339/5365 is a feature-rich, intelligent access device specifically designed with the flexibility and intelligence required to meet the needs of today's expanding Supervisory Control and Data Acquisition (SCADA) applications. 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 Future Proof Investment

The WANsuite platform provides a migration path that protects customers' investments as they migrate to emerging network services. Based on the Motorola MPC860 processor and running at 40 MHz, the WANsuite 5339 and 5365 deliver up to 50 MIPS of CPU power, providing increased performance at significant cost savings.

A Cost Effective Device

The WANsuite® series consists of intelligent WAN access devices, ranging from low-cost CSU/DSUs to fully Integrated Access Devices (IAD). The WANsuite 5339 and 5365 showcase the flexibility of the WANsuite series by supporting enhancements to DDS network applications including intelligent DSU, leased line, TDM, Frame Relay, Frame Relay statistics and diagnostics, PPP, IP routing and Supervisory Control and Data Acquisition (SCADA).

SCADA Applications

Supervisory Control and Data Acquisition (SCADA) provides customers the ability to remotely monitor and control their utility systems quickly and easily. Using SCADA, customers can remotely monitor operations such as water tank levels, pipeline flow, high- or low-level alarms, compute gas flow totals, pipeline pressure and totals, as well as voltage and current on transmission systems.

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 manageability 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.

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WANsuite 5339/5365 Technical Specifications

Serial Interface

- DTE Port(s): Software-selectable V.35, EIA-530, or RS-232; Supports Sync/Async and CTS/RTS flow control
- Data Rate: Sync: 1200 - 115200 bps; Async: 300, 1200 - 115200 bps
- Bundling: Contiguous, Alternating, and Random
- Connection: DB-25 female
- Data Rate: Async: 1200 - 115200 bps
- Connection: DB-9 female

Network Interface

- Line Rate: 56/64 kbps
- Input Signal: Up to 49 dB of loss
- Line Protection: 1000 V, fused input/output
- Protocol: TDM, Frame Relay, PPP
- Connection: RJ-48C, 100 ohms \pm 5%

Ethernet Interface

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

Advanced Features

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

Management Features

- 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)
- Network Loops: Line, Payload, or Maintenance
- DTE Port Loops: V.54 and Local
- BERT: Marks, QRSS, 511, 2047, 215, and Spaces
- Originate Ping
- Email notification on trip events

Timing

- Network interface or internal

Mechanical

- WANsuite 5339
 - Mounting: Desktop
 - 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)
- WANsuite 5365
 - Mounting: Card for AS2000
 - Dimensions: 8.2 in. (20.83 cm) W, 0.94 in. (2.39 cm) H, 9.94 in. (25.25 cm) D
 - Weight: 15.2oz (430.91g)
 - Shelf Option: Dual-line, Quint-line, Multi-line (AS2000 DLS, AS2000 QLS and AS2000 MLS)

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

Power

- WANsuite 5339: External or Internal 100-240 VAC, 50-60 Hz, auto ranging
- WANsuite 5365: refer to AS2000 DLS, AS2000 MLS and AS2000 QLS

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
 - Safety: UL 1950 3rd Edition, CSA C22.2 No 950:95
 - Telecom: FCC Part 68, IC CS-03 Issue 8

Layer 3 Statistics and Up

- Ethernet, IP, SNA, NetBIOS, IPX, PPP, TCP, UDP, FTP, TFTP, SNMP, RIP1, RIP, BootP, SMTP, HTTP, ICMP, OSPF, 12TP, NC, SPX, IPXRIP, L2TP, H.323

Supervisory Control and Data Acquisition (SCADA)

- Diagnostics: Data monitor and RTU loopback
- Asynchronous multicasting
- SCADA traffic prioritization
- Encryption per DLCI

