General DataComm

DeskTop-T1

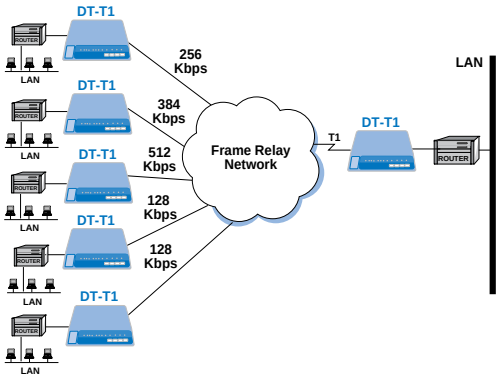
Economical T1/FT1 Access for Branch Offices

Highlights:

- *High performance T1/FT1 CSU/DSU for office environments*
- *Supplies bandwidth of up to 1.544 Mbps*
- *Adheres to all T1/FT1 access standards*
- *Easy configuration and installation*
- *Powerful diagnostics for rapid fault isolation and system restoral*
- *ESF error statistics, alarm and status reporting*

Overview The DeskTop-T1 (DT-T1) is a single channel CSU/DSU that provides economical, advanced network access at full T1 or fractional T1 (FT1) rates in an attractive, compact package. This highly reliable, user-friendly product is an excellent choice for branch office

environments where network management is not needed, or for central sites requiring a basic high speed access solution. Remote site DT-T1s can be combined with a GDC SpectraComm 5000 System at the central office for a cost-effective, integrated T1/FT1 network. And, the DT-T1 interoperates with GDC's DeskTop 554A and DataComm 554 T1/FT1 CSU/DSUs, or with any other data set conforming to the ANSI T1.403 specification, enabling easy placement in existing networks.



LAN Router Interconnection over Frame Relay

Flexible, High Speed Access When your existing application has outgrown 56 Kbps, the DT-T1 is the answer. It supplies bandwidth as high as 1.544 Mbps for remote LAN access and Internet service provisioning, while saving on equipment costs. And its V.35 interface interconnects LAN routers, T1 multiplexers, videoconferencing, CAD/CAM, and medical imaging equipment over today's more attractively priced FT1 services.

Service Compatibility The DT-T1 operates at all N x 56/64 Kbps rates from 56 Kbps to 1.536 Mbps (where N=1 to 24) and at 1.536 Mbps in framed, or 1.544 Mbps in unframed, modes. It supports both the ANSI and AT&T 54016 versions of Extended Superframe (ESF), D4 framing, as well as AMI and B8ZS (clear channel) line coding, to ensure compatibility with the latest digital services. In addition, the DT-T1 complies with the AT&T 54019A specification for FT1 transmission — a requirement for access to Frame Relay services.

Easy Installation The DT-T1 simplifies both initial installation and any future reconfiguration. A console port on the back panel allows for soft-optioning and status monitoring via a VT-100 terminal using simple, text-based screens. In addition, the DT-T1 can be configured through clearly marked on-board option switches, making it easy for the end-user to install.

An array of LEDs and front panel controlled tests quickly verify equipment operation, as well as identifying signal status and alarm conditions. To make things even easier, the DT-T1 automates both Line Build-Out (LBO) and framing format selection.

Powerful Diagnostics The DT-T1 supports powerful diagnostic tests, including a full complement of loopbacks, to isolate and quickly resolve system faults. Network administrators can use the DT-T1's VT-100 interface or convenient front panel switches to test the T1 aggregate circuit, bundled channels, and data terminal equipment (DTE). The DT-T1 even has

DeskTop-T1

General DataComm

I.S. EN ISO 9001

a built-in test pattern generator/error detector to minimize the need for external test equipment. For added flexibility, the network administrator can select from multiple test patterns, including QRSS (Quasi-Random Signal Source) to stress test the T1 link, as well as ITU-T 511 and 2047 for data channel testing. DTE EIA status reporting and a series of reported alarms can be accessed through the VT-100 terminal. In addition, ESF registers provide the carrier with in-service statistics to help monitor the overall performance of the network.

Superior Performance The DT-T1 employs the latest digital technology to ensure the most trouble-free operation possible over the widest range of T1 circuits. Since it incorporates powerful VLSI and microprocessor components, it consumes very little power, resulting in low heat dissipation and longer component life for years of reliable performance.

Specifications

Compatibility:	Fully compliant with ANSI T1.403, AT&T TR6241 and AT&T TR54016
Data Rates:	N X 64 Kbps or N X 56 Kbps where N = 1 to 24; up to 1.536 Mbps framed or 1.544 Mbps unframed
Data Encoding:	Bipolar, return to zero (AMI or B8ZS)
Frequency:	1.544 Mbps + 50 bps
Framing:	D4, AT&T 54016 ESF, ANSI T1.403 ESF, unframed
Network Interface:	1.544 Mbps channelized DS1 in consecutive or alternate DS0s or field selectable DSX-1
DTE Ports:	One
DTE Interfaces:	ITU-T V.35
Timing Options:	Internal clock; DTE external clock; slave timing (received loopback timing)
Power Requirements:	99 -129 VAC, 50/60 Hz, 20 W maximum
Physical and Environmental	
Dimensions:	36 mm (1.4 in) H X 188 mm (7.4 in) W X 279 mm (11.0 in) D
Weight:	.45 kg (1.0 lbs)
Shipping Weight:	0.9 kg (2 lbs)
Temperature:	0° to 50° C (32° to 122° F) operating; –40° to 70° C (–40° to 158° F) non-operating
Humidity:	Up to 95% without condensation
Safety Protection:	UL recognized (UL 1459) and CSA certified
Warranty:	5 years

Ordering Information

Description	*Part Number*
DT-T1 Standalone with RJ48C to RJ48C Network Cable included	048A102-005
Options and Accessories(order separately):	
Console Port Adapter (RJ 48C to DB-25)	029H210-001
Console Port Adapter Cable	830-028-8XX

Available exclusively from GDC Premier Distributors.
For the name and address of your local GDC Premier Distributor, contact General DataComm, National Reseller Division, (800) 523-1737 or see our website at www.gdc.com.

Printed in U.S.A 00583-1297YA