



# Model FT1-CSU/DSU



## Description

The GDI Model FT1-CSU/DSU provides an economical solution to T1 network access cost, when full T1 or fractional T1 is needed. This unit supports Extended Superframe Format (ESF) which makes possible continuous error checking, performance polling, and in-service diagnostics. With DTE port operating from 56 to 1536 Kbps, the GDI FT1-CSU/DSU enables users to interconnect various network style connections.

The GDI FT1-CSU/DSU supports local control and diagnostics using 2-line by 16-character LCD and keypad. This enables users to execute in-service diagnostics and fault isolation. Ten LEDs provide both line side and DTE side status indicators. With optional SNMP Network Management Systems and Telnet connection, users can remotely control and run diagnostics from anywhere.

## Features

- DSU functionality integrated with an intelligent CSU in a compact package
- 2-line by 16 character LCD
- Front panel status LEDs
- SNMP Management or terminal console port
- Compliance with ANSI T1.403, AT&T PUB 54016 and 62411

## Specifications

### Network Line Interface (DS-1 Interface)

Line Rate	1.544 Mbps $\pm$ 50 bps
Line Code	AMI/B8ZS (selectable)
Input Signal	DS-1 form 0 dB to -26 dB w/ ALBO
Surge Protection	FCC Part 68 Subpart D
Framing	D4/ESF (selectable)
Connector	RJ48C
Output Signal	DSX-1 w/0, -7.5, -15 dB LBO
Pulse Template	Per AT&T TR 62411

**GDI Communications LLC**  
**PO Box 1330, Verdi, NV 89439**  
**Ph: 775-345-8000 Fax: 775-345-8010 E-mail: sales@sgdi.net**



# Model FT1-CSU/DSU

## Customer Equipment Interface

### A. Single DTE Data Port

Data Rate	N * (56 or 64 Kbps) (n= 1 - 24)
Connector	EIA530 (DB25) (RS232 or V.35 using adapter cables or VRC-1)

### B. DS0 Mapping

Maps	2 sets of DS0 map with provision for automatic switching between the 2 maps
Remote Send	Send active DS0 maps to remote site (in ESP mode only)

## Performance Monitor

Performance Memory	Last 24 hours in 15 minute intervals
Monitor Registers	Line, user, and remote site (ESP mode only)
Performance Reports	Date & Time, Errored Second, Unavailable Second, Bursty Errored Second, Sever Errored Second, Controlled Slip Second, and Loss of Frame Count
Alarm history	Date & Time, Alarm Type and Location
Alarm Queue	40 alarm records which record latest alarm type, and Date & Time.
PRM	ANSI PRM (selectable)

## System Configuration Parameters

Active Configuration	Current working configuration
Stored Configuration	User stored configuration
Default Configuration	Manufacture default configuration (permanent)

## Console Port

Connector	RJ-11 at Front Panel
Electrical	RS232 Interface
Protocol	Menu driven VT-100 terminal or Embedded SNMP (optional)

## Front Panel

Keypad	4 keys: left arrow, right arrow, ESC & Enter
LCD	2-line by 16-character LCD
LED	10: Power, Line[SYNC/TEST, LOF, BPV, YEL/AIS], DTE[TEST, TD, RD, RTS, CLK-LOSS]

## Diagnostics Test

Loopbacks	Line Loopback, Payload Loopback, Local Loopback, and DTE Loopback
Test Pattern	2 <sup>20</sup> - 1 QRSS, 3-in-24, 1-in-8, 1:1 patterns
Idle Channel	Use of idle channel to perform QRSS diagnostic test
Remote Loopback	AT&T inband Loopback & Payload Loopback, ANSI Line Loopback, Payload Loopback, DTE Channel Loopback

## Compliance

AT&T TR 54016	AT&T TR 62411
AT&T TR 54019	ANSI T1.403-1989
AT&T TR 54019A	FCC Part 15 Class A

## Physical/Electrical

2.25"H x 8.5"W x 11.25"D  
100 to 240 VAC, 50/60 Hz less than 5watts  
Desktop stackable, optional 19/23 inch rack mount

## Environmental

Operation and Storage:  
-40 to +75°C, 0 to 95% relative humidity

Specifications subject to change without notice

**GDI Communications LLC**  
**PO Box 1330, Verdi, NV 89439**  
**Ph: 775-345-8000 Fax: 775-345-8010 E-mail: sales@sgdi.net**