



# Model DSU-56 Series DSU/CSU



## Description

The GDI Model DSU-56SA is a DSU/CSU in the GDI standalone case with the addition of anti-streaming, internal power supply, fuse, on/off switch, and DB-9F connector. The DSU operates over 56 Kbps digital service lines, with an RS-232 interface at 56 Kbps synchronous, or up to 19200 bps asynchronous. The DSU is designed to operate at temperatures of  $-40^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$ .



## FEATURES

- \* **Front Panel / LED's**

**Power, CTS, RTS, Tx Data, Carrier Detect, RX Data, Test Loopback Switch**

- \* **Rear Panel:**

**RJ-48S Telco Digital Line input**

**3 position dip switch**

**Anti-streaming control selections on piano dip for off or 10 seconds**

**Anti-streaming is reset by powering the unit off and back on or by lowering RTS**

**Switch for forcing CTS (constant carrier, where DSU output to the phone line is "not idle") or terminal controlled RTS/CTS.**

**Switch for line driver mode**

**Power Switch**

**Fuse on AC Input**

**Power Cord**

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## Data Signaling Rates and Modulation

Digital Line Rate of 56,000 bps  
Bi-polar non-return-to-zero modulation  
135 ohm  $\pm$ 10% transmit impedance  
Transmit level @ 135 ohm load, 56 Kbps, 1.4v peak  
135 ohm  $\pm$ 10% receive impedance  
Receive level sensitivity, -49 dB  
Automatic equalization

## Operating Mode

Full Duplex  
Constant or switched carrier  
Point-to-point or multi-point

## DTE Timing

Synchronous rate of 56,000 bps  
Asynchronous rates of 9600 & 19200 bps

## Transmission Line

4 wire leased line, Telco Digital Line (DDS)  
4 wire in-house, 2 twisted pair, for line driver

## Loopbacks

Local Bi-directional (towards terminal and toward phone line)

Telco imitated current reversal (CSU) or non-latching DSU loopback

## Connectors

TELCO JACK (RJ-48S)

Pin	Signal
1	Transmit Data
2	Transmit Data
7	Receive Data
8	Receive Data

RS-232D (DB9F)

Pin	Description	I/O
1	DCD	Output
2	RD	Output
3	TD	Input
4	RXCLK	Output
5	SIG GRD	
6	DSR	+V
7	RTS	Input
8	CTS	Output
9	TXCLK	Output

## Physical/Electrical

1.54"H x 5.75"W x 8.4"D  
95 to 130 VAC, 50/60 Hz less than 2 watts

## Environmental

Operation and Storage:  
-40 to +75°C, 10 to 85% relative humidity

Specifications subject to change without notice

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