



# Model DSU-DASA DSU/CSU



## Description

The GDI DSU-56-DA is a 56 Kbps DSU with an asynchronous interface that can run up to speeds of 115.2 Kbps. It operates in either a point-to-point or multidrop mode.

The GDI Model DSU-56-DA is a DSU/CSU offered in either a 170 internal or a standalone version. In the GDI standalone case with the addition of anti-streaming, internal power supply, fuse, on/off switch, and DB-25F connector. The DSU operates over 56 Kbps digital service lines, with an RS-232 interface at a minimum of 9600 bps up to a maximum of 115.2 Kbps 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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## DSU/CSU

### 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

Asynchronous rates up to 115.2 Kbps

### 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

1.5"H x 5.75"W x 8.5"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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