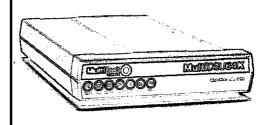
MultiDSU™



Models and Description:

- MT56DSU2 Multi-rate DSU/CSU for 56K bps or sub-rate (19.2K, 9600, 4800, or 2400 bps) digital service.
- MT64DSU DSU/CSU for 56K bps or 64K bps (DS-0) digital service.

eneral Description: Combined DSU and CSU for 56K,

Combined DSU and CSU for 56K, 64K, or sub-rate digital service.

MultiDSU[™] products offer the combined circuitry of a data service unit (DSU) and channel service unit (CSU) for both dedicated and switched digital services.

The MultiDSU64K* (model MT64DSU) connects to 56K or 64K service via a 2-wire or 4-wire, switched or dedicated digital link, supports sync or async operation, and configures for a point-to-point or multi-point network installation. Inputs may range from 9600 to 64K bps, as the MT64DSU provides the speed conversion necessary to interface with the 56K or 64K bps network line.

The MT64DSU supports AT dialing for async mode, DTR dialing for async or sync mode, or V.25bis dialing for sync mode. It accepts sync input at 9.6K, 19.2K, 56K or 64K bps or async input at 9.6K, 19.2K, 38.4K, or 57.6K bps and transmits across a 2- or 4-wire "Switched 56", 4-wire 56K, or "64K Clear Channel" digital service (speed conversion is handled by the DSU circuitry).

The MultiDSU56K" (model MT56DSU2) connects to a 56K or sub-rate service (i.e., 2400 to 56K bps service), supports sync or async operation, and configures for a point-to-point or multi-point network installation. Input to the MT56DSU2 must match the line speed of the digital network service (i.e., to operate over a 19.2K digital service, the DTE must have a baud rate of 19.2K bps).

The MT56DSU2 accepts sync input at 2.4K, 4.8K, 9.6K, 19.2K, or 56K bps or async input at 2.4K, 4.8K, 9.6K, or 19.2K bps and transmits across a 4-wire 2.4K, 4.8K, 9.6K, 19.2K, or 56K bps digital line.

Each model provides an RS232C DCE interface and a V.35 DCE interface for sync or async equipment.

eatures:

Direct DDS* connection, various sync and async input speeds, multi-rate operation, plus user-selectable features.

DATAPHONE® Digital Service (DDS) Ready

 The MultiDSU models comply with the data format conversion, line conditioning, and termination requirements of AT&T* Pubs 41450 and 62310 for direct DDS connection.

Multi-rate Operation

• The MT56DSU2 accepts sync or async input and interfaces with DDS network lines of varying speeds (i.e., 2.4K, 4.8K, 9.6K, 19.2K, or 56K bps subscriptions).

DSU Speed Conversion

- The MT64DSU accepts sync or async input and interfaces with Switched 56, dedicated 56K, or 64K Clear Channel DDS network lines (i.e., 56K or 64K bps subscriptions only).
- The MT64DSU performs the speed conversion necessary to interface the sub-rate input speeds with DDS network speeds.

Built-in Features

- Automatic rate detection.
- Point-to-point and multi-point operation.
- Anti-streaming, elastic store (for analog off-net extensions), system status, and circuit assurance.
- Loopback and test-pattern diagnostics.

User-selectable Features

- RS232C or V.35 DCE interface to the user equipment.
- External, Internal, or DDS (slave) clocking.
- RTS and DSR signal "forced on" options.

pecifications:

LEDs:

Dimensions: 1.38" x 6.15" x 9.00" 3.5 cm x 15.6 cm x 22.9 cm Weight: 2.7 lbs (1.2 kg) w/ Xfmr 2.0 lbs (0.9 kg) w/out Xfmr

SD (Transmit), RD (Receiver), CD (Carrier), Network data rates, CTS (Clear), RTS (Request), NS (No Signal), OOS (Outage), TM (Test

Mode)

Input Rates: Sync - 2.4K, 4.8K, (MT56DSU2 only)

9.6K, 19.2K, & 56K bps (both models)

64K bps (MT64DSU only)

Async - 2.4K, 4.8K, (MT56DSU2 only) 9.6K, & 19.2K bps (both models) 38.4K & 57.6K bps (MT64DSU only)

SOC Code: Part 68 FCC Registration Number

AU7USA-18883-DE-N

Connectors: DB25F (female) for RS232C DCE

34-pin (female) for V.35 DCE RJ48S (8-pin female) keyed jack for

DDS network

Power Usage: 117V AC, 50-60 Hz, 10 Watts Temperature: 32° to 120° F (0° to 50° C) Humidity: 95% (non-condensing)

Certification: FCC Part 15 Class A, FCC Part 68, UL

Listed, AT&T Pubs 62310 & 41450

MT56DSU2 04DU5-24 (2.4K bps interface)
FIC/NIC: 04DU5-48 (4.8K bps interface)
04DU5-96 (9.6K bps interface)
04DU5-19 (19.2K bps interface)
04DU5-56 (56K bps interface)

MT64DSU 04DU5-56 (56K bps interface) FIC/NIC: 04DU5-64 (64K bps interface)

USOC Jack: RJ48S (Keyed)
Modulation: bipolar return to zero
Transmit 1.4v peak (+6dBm) ir

Transmit 1.4v peak (+6dBm) into 135 ohms at 2.4K, 4.8K, 19.2K, 56K, and 64K bps 0.7 peak (0 dBm) into 135 ohms at 9.6K

bps

Impedance: 135 ohms input and output
Receive 6 to -40 dBm at 2.4K & 4.8K bps
Levels: 0 to -40 dBm at 9.6K bps

6 to -40 dBm 19.2K bps 6 to -45 dBm 56K & 64K bps

> Trademarks: MultiDSU56K, MultiDSU64K, MultiDSU, Multi-

Tech, and the Multi-Tech logo are

trademarks of Multi-Tech Systems,

are trademarks of American Telephone and Telegraph.

Inc. AT&T, DATAPHONE, and DDS

April, 1996

FB Doc # 1412

| Delay Times: | KIS/CIS | DCD on | DCD off |
|---------------|---------|--------|---------|
| 2. 4 K | 8.1 | 7.5 | 7.0 |
| 4.8K | 4.3 | 2.6 | 3.5 |
| 9.6K | 2.2 | 1.6 | 1.5 |
| 19.2K | 1.0 | 0.8 | 0.7 |
| 56K/64K | 0.4 | 0.3 | 0.2 |
| | | | |

Limited Warranty: Two years

Manufactured in Mounds View, MN, U.S.A.

86000140

MultiTech Systems The right assure average time.

The right answer every time.

Multi-Tech Systems, Inc. 2205 Woodale Drive Mounds View, MN 55112 United States

TEL: (612) 785-3500/(800) 328-9717 FAX: (612) 785-9874

BBS: (612) 785-3702/(800) 392-2432 Tech Support: (800) 972-2439

Fax Back: (612) 717-5888
Web Site: http://www.multitech.com
FTP Site: ftp://ftp.multitech.com

Multi-Tech Computers (U.K.) Ltd. Gibbs House, Kennel Ride Ascot, Berks SL5 7NT United Kingdom

TEL: +(44) 1344-891266 FAX: +(44) 1344-891215 BBS: +(44) 1344-891158

FAX: +(44) 1344-891215
BBS: +(44) 1344-891158
Copyright © 1996
by Multi-Tech Systems, Inc.,
Multi-Tech Systems, Inc.,

Multi-Jech Systems, Inc., has international offices in China, France, Germany, India, Mexico, the Netherlands, and the United Kingdom. For more information, contact Multi-Tech world headquarters at (800) 328-9717 or (612) 785-3500.