

DBU-2328_M

8-Port Data Broadcast with Dual Input Data Ports 1U Rackmount Chassis



FEATURES / BENEFITS

- ✓ Interface - EIA RS-232, DB-25 Female Connectors
- ✓ User Ports – 2-Ports Input, 8-Ports Output
- ✓ Data Rates – Asynchronous to 19.2Kbps
- ✓ Transparent to Data
- ✓ Handshaking – RTS to CTS or RTS/DTR to CTS
- ✓ Enable/Disable Switches for Input Ports
- ✓ Visual Indication Input Ports and Data Activity
- ✓ HELLO test message option for cable installations
- ✓ 110/220VAC Switch Selectable
- ✓ Safety: meets new 62368-1
- ✓ 1U Rackmount Chassis
- ✓ +/- 15Kv ESD Protection for RS-232 Interface

DESCRIPTION

The DBU-2328_M is designed for RS-232 asynchronous data protocols, featuring two input ports (Port-A and Port-B) and eight output ports (1-8). It operates using RTS/CTS handshaking, allowing one input port to connect at a time while the other remains in standby.

It should be noted that the RTS signal given to the products internal Microcontroller is a combination of RTS (pin 4) and DTR (pin 20) of the input Async port. If DTR is not required, there is a 3-Pin header on the PCB to enable or disable the DTR requirement. CTS is returned to the selected input port with a delay based on the 4 position dip switch settings 1 & 2. The delay range is based on milliseconds(ms), the options are: 5, 10, 25 and 50ms (50ms is factory default, best for async character recognition).

After input Port A or B is connected via RTS/CTS handshake Data is then transmitted out to the 8 broadcast ports. The broadcast ports are configured as DCE devices. Therefore, the data is transmitted out on pin 3 (Received data).

RTS from the selected input port is passed to the broadcast ports as CTS (pin 5) CTS to the broadcast ports may be forced using S1 dip switch position 3 located on the PCB.

Carrier Detect (CD pin 8) and Data Set Ready (DSR pin 6) will be forced on each of the eight broadcast ports.

Input Port-A or Port-B will remain connected to the box for as long as RTS is high to the input port.

EXAMPLE: When Port-A drops RTS, Port-B can then have access if RTS is raised high.

There are two front panel switches to enable or disable the input async ports A or B.

Housed in a sturdy metal enclosure and equipped with an internal 110/220VAC switch selectable linear power supply, the unit will provide more than 400,000 hours of reliable service.

SPECIFICATIONS

Application

8-Port Data Broadcast with Dual Input Data Ports that allow a single port connection using RTS/CTS handshaking

Capacity

Two Input Ports
Eight Output Ports
All ports are DCE Interfaces

Interface

EIA RS-232 with Surge Protection

Data Rates

Up to 19.2Kbps

Data Format

Asynchronous - data transparent at all data rates
Any character length

Handshake Method for Input Ports A/B

RTS to CTS or RTS/DTR to CTS

RS-232 Port Connections

DB-25 female connectors

RTS to CTS Delay Options

5, 10, 25 & 50ms (Dip Switch Selectable)

Cascade Box to Box Support

Yes – J6 Jumper on PCB to 1-2 position

Front Panel Indicators

Power(PWR), Active Input as Port-A & RTS and Port-B & RTS, output ports 1-8 as RXD & CTS when Port-A/B are connected with RTS/CTS handshake, Input Ports A/B switch enable LED's, Test Patt LED.

Power Source

100-120Vac, 0.16A or 200-240Vac, 0.08A, 50-60Hz, external 110/220 volt select switch, IEC Power Inlet, (2) 5mm Fuses

Power Draw

Less than 3 watts total

MTBF

557,600 Hours
Benign Ground, Controlled, Telcordia Issue 1

Approvals – EMI / Safety / Environmental

EMI Approvals
FCC 47CFR, Part 15, Subpart B for conducted emissions from a Class A
FCC 47CFR, Part 15, Subpart B for radiated emissions from a Class A

Safety Approvals

UL 62368-1

Environmental

Operating Temperature: 50° to 160° F (10° to 60° C)
Operational Alt.: 0 to 2000 Meters above sea level
Operational Relative Humidity: 10% to 80% Non-Operational Temperature: -30 degC to 70 degC
Non-Operational Alt.: 0 to 50,000 feet above sea level

Dimensions

Height 1.75 inches (4.44 cm)
Width 17.00 inches (43.18 cm)
Depth 9.00 inches (22.86 cm)

Weight

5.0 pounds (2.267 Kg) in the box

Warranty

Three Years, Return to Factory

ORDERING INFORMATION

Part Number: 295000

Model: DBU-2328_M

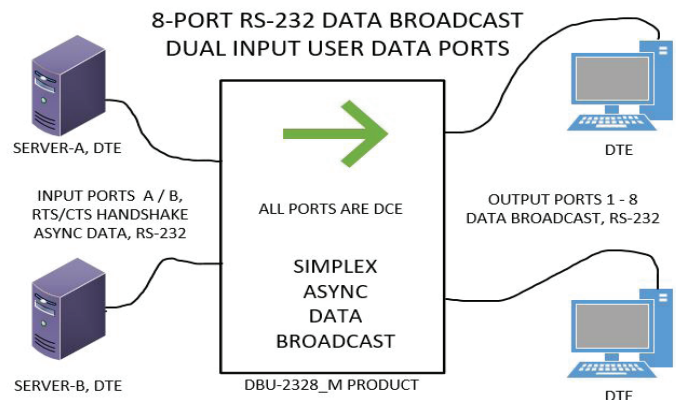
Description: 2-Port Data Sharer with 8-Port RS-232 Data Broadcast Ports, 1U Rackmount Chassis

Included with each unit:

- 1) Operations Manual
- 2) U.S.A. Grounded Power Cord, Part # 713015
- 3) 1U Rackmount ears, PT# 702037
- 4) 0.080ma Fuse, Qty (2) Part # 714001

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RS-232 Data Sharer with 2-8 Ports
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