

# DSX-1 56-Port

Model SA-2115-0001



**NAME**  
**DSX-1 56-Port Front Wire Wrap**

**ORDER NUMBER**  
**SA-2115-0001**

The Comtest Networks DSX-1 is a 56-port unit that allows permanent cabling at DS1 (1.544 Mbps) digital signal rates that cross-connects between network elements such as office repeaters, digital switches, channel banks, digital loop carriers, multiplexers, and digital loop switches. The DSX-1 enables terminating, rearrangement or temporary patching of DS1 circuits as trouble occurs or traffic demand and patterns change. Each network element can be permanently cabled to a DSX-1 terminal or can be temporarily connected using a cross-connect jumper or patch cables between two DSX-1 terminations.

The DSX-1 provides three connection areas ("fields") - 1) input/output (I/O) for network element connections, 2) cross-connect (circuit completion) and 3) jack (monitoring or patching). The test points provide bridged and series access for testing or patching.



## BENEFITS

- Network element replacement and testing without service interruption
- Faster out of service recovery
- Basic maintenance & physical layer access
- Increased capacity and faster service provisioning
- Protection of electronic equipment and network element and better service reliability
- Easy future network migration & planning

## SPECIFICATIONS

**DIMENSIONS (H X W X D)**

152 x 483 203 mm  
6 x 19 x 8 "

### Advantage to hard wired arrangement:

- The DSX-1 can handle a large number of terminations in a non-blocking arrangement
- Easier grooming- adding, removing, and rearranging circuit connections
- Provides alternate routing and fast service recovery in case of network element failure

- Provides quick access to circuits for testing and monitoring
- Circuits can be rolled with minimal interruption of circuit integrity
- Provides visual LED indication of completed cross-connects

**Electrical Parameters:**

- 100 Ohms circuit/line impedance at 772 kHz
- Total insertion loss created by the terminal connections at DSX-1 panel and DSX-1 jack at 772 kHz is less than 0.5 dB
- Return loss – the sum of reflected losses at half line rate (772 kHz) is less than 26 dB, measured at the output test port
- Crosstalk – Disturbing signals from adjacent ports is less than 26 dB