

## Installation

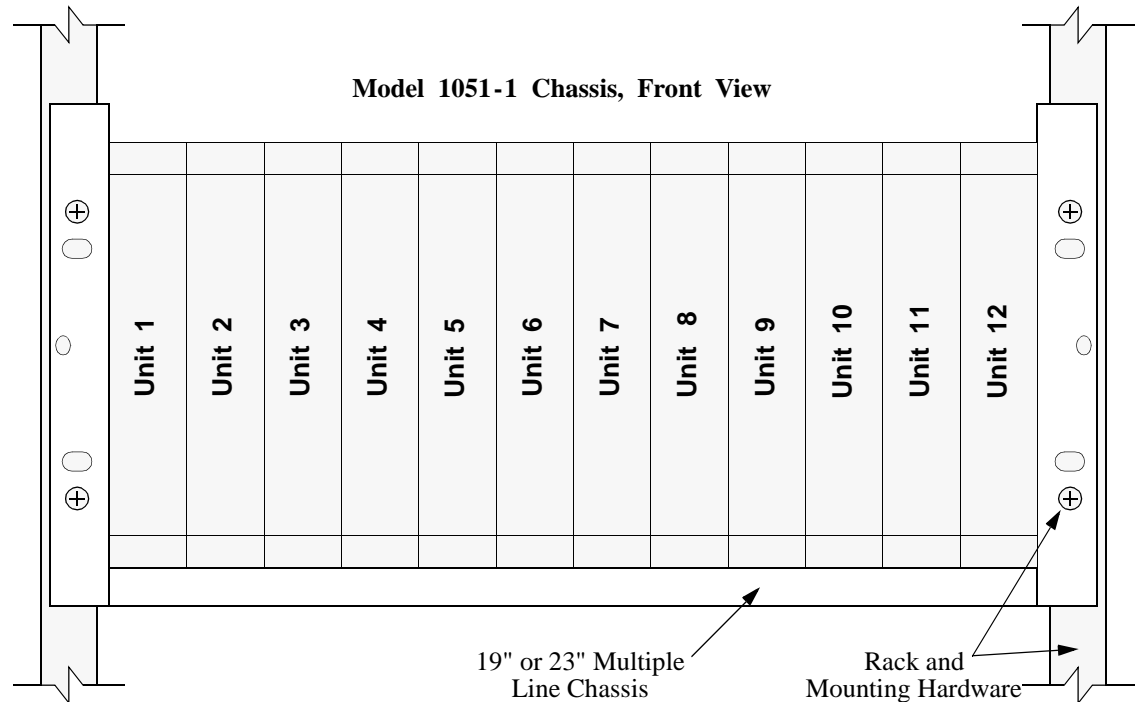
The TxPORT 1051-1 chassis is designed to hold from one to twelve TxPORT Model 2000, 2048, and/or 2100 CSU modules. The 1051-1 accommodates these modules with twelve card slots open to the front of the chassis. Each module card set interfaces a backplane board on the chassis rear through two connectors. Through these card connectors, each module receives a -48 VDC power source and exchanges control and T1 input/output signals with the rear panel chassis connectors. The chassis contains no active components.

Rack mounting ears are reversible for standard 19" or 23" racks. To install, simply insert two screws through both the left and the right mounting brackets.

The rear panel chassis connections are described on the reverse side of this sheet.

## Specifications

Input Voltage:	115 VAC ( $\pm 20$ V)
Output Voltage:	48 VDC ( $\pm 2$ V)
Output Current:	2 A maximum, 50 mA minimum
Power Input:	113 W maximum
Heat Generation:	390 BTU
Efficiency:	80%
Mechanical:	17.2" W, 7" H, 10.5" D, 9.5 pounds



## Ordering Numbers

Shelf without power supply:	9-1040-000--110
Shelf with one power supply:	9-1040-000--111
Shelf with two power supplies:	9-1040-000--112
Spare 48 V power supply:	9-1000-48V--1

TxPORT  
127 Jetplex Circle  
Madison, Alabama 35758

### Customer Service

800-926-0085, ext. 227

### Product Technical Support

8 a.m. to 5 p.m. Central  
205-772-3770, ext. 256  
800-285-2755, ext. 256

### Emergency After Hours

205-603-2193  
Manager: 205-603-2194

## Connectors

Below is a description of the rear panel chassis connectors. Refer to the reference manual of the particular module used (2000, 2048, and/or 2100) for detailed information. Some modules do not use all the connectors provided.

**Equipment:** The module's equipment side interface is referred to as a DSX interface. The equipment physical interface is a standard RJ48H 50-pin connector.

**Network:** The module's network side is referred to as the network interface. The network physical interface is a standard RJ48H 50-pin connector.

**NMS:** The 'NMS IN' and 'NMS OUT' ports are used to connect the modules in the chassis to the EM8000 element manager. Within the chassis, each module is physically connected to the other units in a daisy chain fashion. Two 6-pin modular connectors are provided for each of the 'A' and 'B' sides.

When a network manager is not used, both NMS ports must be connected to each other with the supplied NMS cable.

Each module in the NMS chain must use the same NMS bit rate and have a unique address. Unit addresses do not correspond to chassis slot numbers.

The 'NMS OUT' port is an output only connection used for connecting multiple units together in a daisy chain in/out bus arrangement. The network manager connects to the 'IN/OUT' port of the first unit in the chain. The 'OUT' port is used for connection to the 'IN/OUT' port of the next unit. The last unit in the chain connects its 'OUT' port to the 'IN' port of the network manager.

The communications bus is automatically tied into each module, allowing single point interfacing to the chassis. Cards may be inserted and removed from the chassis without rewiring the communications bus. Communications are restored via the shorting contacts on the backplane when a slot is vacant.

**External Clock:** External contacts are provided (with a 5-pin terminal strip) to permit connection to a remote clocking source

**Alarm Out:** Alarm relay contacts are provided for connection to a remote indicating device. The two contacts labeled 'Alarm Out' are configured to operate either in a 'normally open' or 'normally closed' mode, depending on the module's

switch setting. All CSU modules in a common chassis must use the same alarm relay mode. Make connections to the alarm contacts using 20-gauge stranded wire (or similar).

**Power:** Power is received from an external supply (such as the TxPORT 1040 Power Shelf) and distributed to each card slot. All units are powered by -48 VDC sources which are connected to the 6-pin terminal strip. The chassis is designed with two power buses. The 'A' bus feeds the odd slots (1, 3, 5, 7, 9, and 11). The 'B' bus feeds the even slots (2, 4, 6, 8, 10, and 12).

Connect a ground lead (18 to 20-gauge) to the terminal marked 'GND' on the lower left corner. Connect the other end of this lead to an appropriate facility ground. *Warning: Connect the ground lead before applying power to the unit.*

The chassis is shipped with a redundant power board installed on the power connector. This board allows the chassis connection of two independent -48 VDC supplies operated in a redundant mode. All slots in the chassis are powered from the combined input of the A and B power supplies. If either supply fails, the other will power the entire chassis.

To operate in the redundant power mode, connect the A bus terminals to the corresponding terminals of power supply A. Connect the B bus terminals to the corresponding terminals of power supply B.

When using a single power source, simply connect the A bus terminals on the redundant power board to the corresponding terminals of power supply A. This is the same as the redundant configuration with supply B not operational.

When using a dual independent power supply, one -48 VDC source feeds the A bus while another -48 VDC source feeds the B bus. First, remove the redundant power board. Connect the A bus terminals to the corresponding terminals of power supply A (to power the odd numbered slots). Connect the B bus terminals to the corresponding terminals of power supply B (to power the even numbered slots).

Each module requires a certain amount of current. Ensure that the proper fuse size is used. If using the 1040 Power Supply Shelf, refer to the accompanying configuration guide.

Model 1051-1 Chassis, Rear View

