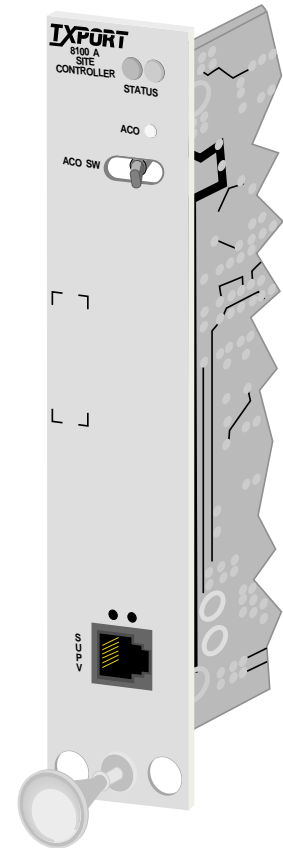


Front Panel Description

Status	The green LED lights when the unit is powered and operating normally .The red LED lights if an alarm exceeding thresholds is detected or another type of unit failure exists.
ACO	This yellow LED illuminates if the Alarm Cut-Off switch is placed in the left (On) position. It indicates that the alarm relay contacts are disabled.
ACO SW	This switch controls the alarm relay circuitry. The left (On) position disables the alarm relay contacts. The right (Off) position enables the contacts to report alarm conditions.
Activity LEDs	These two small, recessed indicators are provided to indicate activity on the NMS port.
SUPV	This 6-pin jack provides direct terminal access for controlling the unit and gathering performance data. It functions as PORT 1, therefore you cannot have Port 1 and the SUPV ports active at the same time. Refer to the Port 1 tables for configuring the bit rate and pinout settings for the SUPV port.

Important Notice:

When installing the 8100A Site Controller as a rack-mounted unit, it must be installed using thread-forming screws with external tooth lock washers in order to meet GR-1089 grounding requirements.



Specifications

SLIP Interface

Connection: 8-pin modular (RS-232)
Data Rate: 1.2, 2.4, 9.6, and 19.2 kbps
Compression: SLIP compression

Ethernet LAN Interface

Net Protocol: TCP/IP based networks
Access Method: Carrier sense multiple access with collision detection (CSMA/CD)
Data Rate: 10 Mbps
Encoding: Manchester
Connection: Attachment Unit Interface (AUI) DB-15 female with slide latch or DB-15 female to 10Base-T
Compatibility: AUI connects to media attachment units (MAU) for 10BASE2, 10BASE5, and 10BASE-T (200 mA maximum current)

Token Ring LAN Interface

Net Protocol: TCP/IP based networks
Data Rate: 4 or 16 Mbps
Connection: 8-pin modular
Compatibility: Type 3 unshielded twisted pair

SNMP MIBS

MIB-II: Device identification and LAN interface performance data. All applicable objects are maintained.
DS1/E1: DS1/E1 network interface configuration and performance objects are maintained per RFC 1406.
TxPORT: Company information and enterprise TRAPs
DDS: DDS equipment configuration and maintenance objects.
Access Ports
Serial Ports: 2400, 9600, 19,200, and 38400 bps, 8 data bits, 1 stop bit, No parity (optional) 14,400 bps, V.42/V.42 bis
Modem Port:

Power

DC Power: -48 VDC ($\pm 10\%$) ,230 mA max, 11 Watts, 38 BTU max.
Connection: The module unit connects to and receives power from a 1051 chassis backplane. The standalone unit uses a terminal block.
Alarm Contacts: 30 Volt and 1 Amp maximum

Mechanical (standalone model)

Mounting: Desktop, wall, horizontal or vertical rack
Dimensions: Width - 1.72 inches (4.37 cm)
Height - 6.8 inches (17.27 cm)
Depth - 10.5 inches (26.67 cm)
Weight: 2 pounds (0.91 kg)

Environmental

Operating Temp: 0° to 50° C (32° to 122° F)
Storage Temp: -20° to 85° C (-4° to 185° F)
Humidity: 95% max (non-condensing)

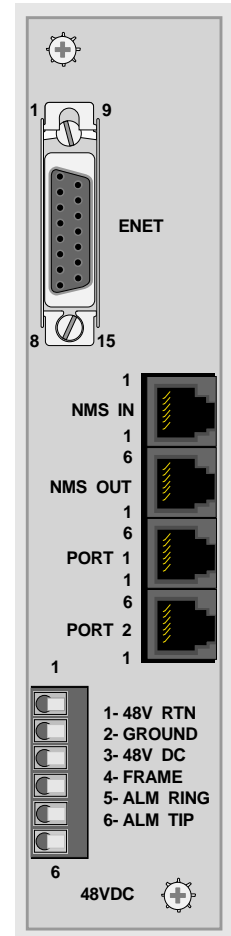
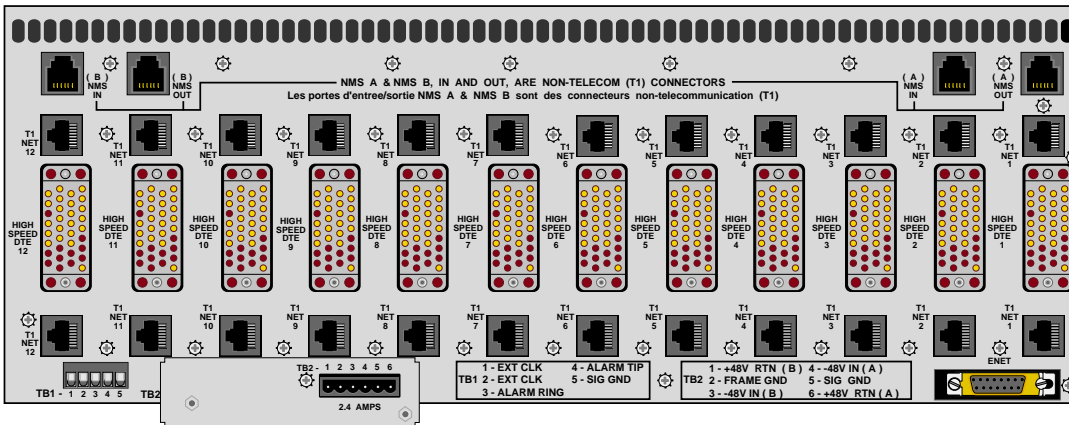
Industry Listings

FCC: Part 15 Subpart B, Class A
Part 68 Cert: DWEUSA-75322-FA-E
Modem: XE1414V
NRTL Cert: LR 98859
IC/CSO3: 1653 6223 A
Internet: RFC 1155 (SMI)
RFC 1157 (SNMP)
RFC 1213 (MIB-II)
RFC 1406 (DS1/E1 MIB)
RFC 1055 (SLIP)
Ethernet: ISO/IEC 8802-3

TxPORT 1051-3 Chassis Rear View

(Note: 1051-2 chassis uses DB-25 connectors on the high speed ports.)

8100A Rear View (Standalone Model)



Port 1 and SUPV

Pin	Assignment
1	Ext. Alarm - Lead A
2	Signal Ground
3	Data Out
4	Data In
5	Signal Ground
6	Ext. Alarm - Lead B

NMS

Pin	Bus IN	Bus OUT
1	Not Used	Not Used
2	Signal Ground	Signal Ground
3	Not Used	Data Out
4	Data In	Not Used
5	Signal Ground	Signal Ground
6	Not Used	Not Used

Token Ring

Pin	Assignment
1	Not Used
2	Not Used
3	Data Out (-)
4	Data In (+)
5	Data In (-)
6	Data Out (+)

Ethernet

Pin	Circuit	ENET
3	DO-A	Data Out (A)
10	DO-B	Data Out (B)
11	DO-S	Circuit Shield
5	DI-A	Data In (A)
12	DI-B	Data In (B)
4	DI-S	Circuit Shield
2	CI-A	Control In (A)
9	CI-B	Control In (B)
1	CI-S	Circuit Shield
6	VC	Voltage Common
13	VP	Voltage Plus
14	VS	Voltage Shield
Shell	PG	Protective Ground (Conductive Shell)

Port 2

Pin	Assignment	Internal Modem	SLIP
1	Not Used	Not Used	Control Out
2	Signal Ground	Not Used	Signal Ground
3	Data Out	Telco Tip	Data Out
4	Data In	Telco Ring	Data In
5	Signal Ground	Not Used	Signal Ground
6	Not Used	Not Used	Control In

Power/Alarm

Pin	Assignment
1	48 VDC Return (+)
2	Signal Ground
3	48 VDC (-)
4	Frame Ground
5	Alarm Contact
6	Alarm Common

SUPV and Port 1 are identical ports. You cannot use both ports at the same time. You must use either SUPV or Port 1.

Switch S1

S1-1	S1-2	TERM 1 Bit Rate
Open	Open	38400 bps
<u>Closed</u>	<u>Open</u>	<u>19200 bps</u>
Open	Closed	9600 bps
Closed	Closed	2400 bps
S1-3	S1-4	TERM 2 Bit Rate
Open	Open	38400 bps
<u>Closed</u>	<u>Open</u>	<u>19200 bps</u>
Open	Closed	9600 bps
Closed	Closed	2400 bps
S1-5	S1-6	NMS Bit Rate
<u>Open</u>	<u>Open</u>	<u>19200 bps</u>
Closed	Open	9600 bps
Open	Closed	2400 bps
Closed	Closed	1200 bps

S1-7: Enables the forcing of a control board Flash download on power-up.

Open - Normal Closed - Forced Download

S1-8: Enables the forcing of a Maintenance Reset on power Open.

Open - Normal Closed - Maintenance Reset

Jumper J1

Normally Open (NO) - Pins 1 and 2

Normally Closed (NC) - Pins 2 and 3

Factory default settings are shown underlined.



(formerly TxPORT)

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