

Front Panel Description

1	Brackets: Use the 2 holes on each bracket to bolt the 1544N to the rack mount kit or wall.
2	Switch SW1: This 7-position configuration switch is detailed on the reverse side of this guide.
3	POWER: This green LED lights whenever power is applied to the 1544N.
4	BPV: This red LED lights (0.1 seconds minimum) for each occurrence of bipolar violations (BPV).
5	ALL 0s: This red LED lights if no signal is detected from the network.
6	AIS: This red LED lights if an unframed all ones signal (alarm indication signal) is detected from the network or DTE.
7	LOOP: This yellow LED lights to indicate that the unit is in the Line Loopback condition.
8	DENSITY: This red LED lights if the ones density of the received data from the DTE is less than 12.5%.
9	SET: This red LED flashes when the set code is transmitted. It lights constantly if the set code is received.
10	RESET: This red LED flashes when the reset code is transmitted. It lights for 5 seconds if the reset code is received.
11	ERROR: This red LED flashes if an error is received during a network test.
12	Test Jacks: These bantam jacks provide access to the T1 line on the DTE side. The jacks allow transmit and receive toward the network, toward the DTE, or monitoring of traffic between the DTE and the network. Refer to the description below.
13	Test Switch: This is a 3-position rocker switch used for performing a network test or a local loopback. Refer to the description below.

Test Jacks (12)

TOP: The top 2 jack access ports break connection to the DTE and make connection to the CSU in the direction of the network.

MIDDLE: The middle 2 ports are used for monitoring the signals passing through the CSU (between the DTE and the network).

BOTTOM: The bottom 2 ports break connection to the CSU and make connection to the DTE.

Receive signal from the network

Monitor signal from the network

Transmit signal to the DTE

Transmit signal to the network

Monitor signal from the DTE

Receive signal from the DTE

Test Switch (13)

NETWORK TEST: When depressed, the CSU loop code is transmitted for 5 seconds.

NORMAL: When moved from NTWK TEST back to NORMAL, the CSU sends a loop down code. When moved from LOCAL LOOP back to NORMAL, the local loop back is removed.

LOCAL LOOP: When depressed, the CSU performs a local, bidirectional loop.

NTWK TEST

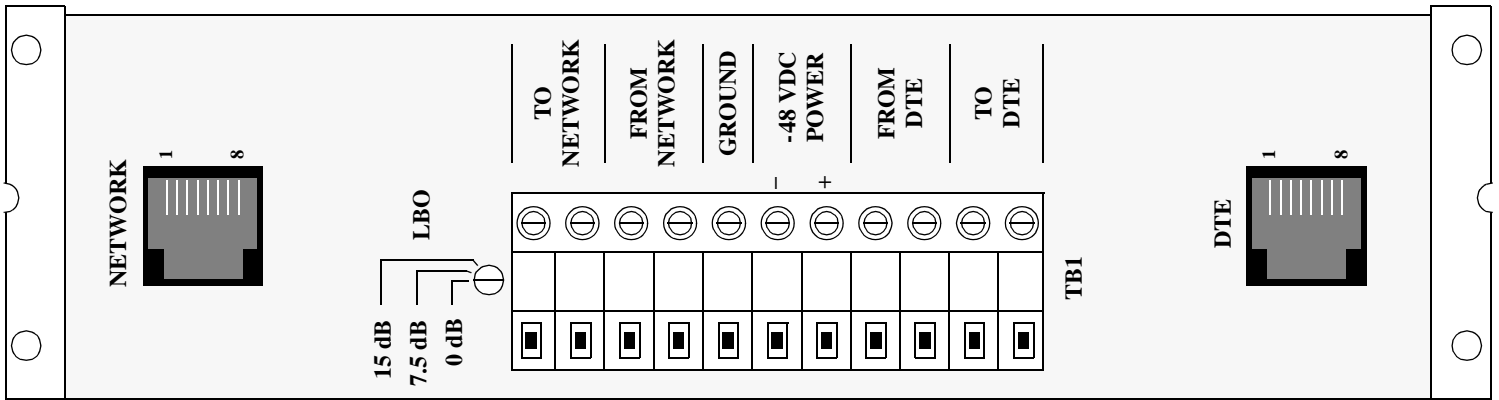
NORMAL

LOCAL LOOP

DTE

NET

1544N Rear Panel

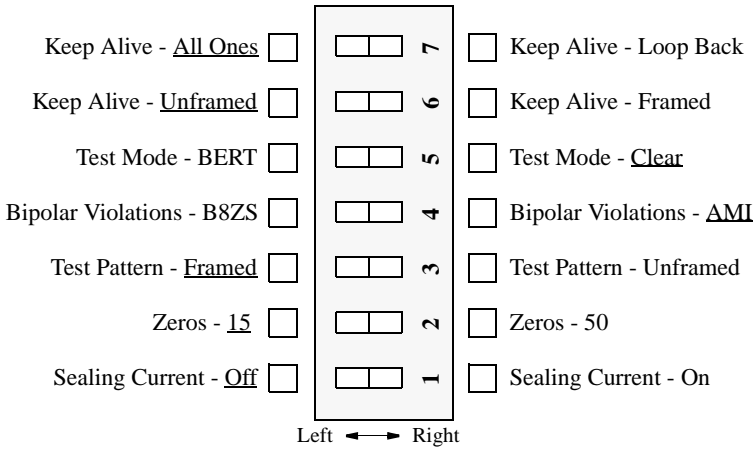


LBO Level

Sets the output signal level of transmitted data. The Telco should provide the proper setting. If unsure of the exact setting, set to 0 dB.

NOTE: If the terminal block is to be used for DTE connection, the dummy plug must be inserted into the DTE jack. When the plug is removed, the unit is looped toward the network. There is no loop toward the DTE.

Option Switch SW1 (front panel)



NET / DTE Interface

Pin	DTE (RJ48X)	NET (RJ48C)
1	Data Out	Data In
2	Data Out	Data In
3	Not used	Not used
4	Data In	Data Out
5	Data In	Data Out
6	Not used	Not used
7/8	Ground	Ground

NOTE: This unit is factory preset for normal operation. All factory default settings are shown underlined. The unit may be installed and operated without any further adjustment. If your particular setting requirements are different, then mark the box which corresponds to your selection (for future reference).

Switch SW1 Description (front panel)

S1	Sealing Current: <u>OFF</u> is used where the Telco provides line power or where sealing current is not required. ON applies sealing current to a dry (no power) Telco interface. Warning: enabling sealing current with Telco line power present could damage the unit and/or cause improper operation.
S2	Zeros: <u>15</u> allows 15 successive zeros from the DTE before the Keep Alive mode is activated. 50 allows 50 zeros before Keep Alive is activated.
S3	Test Pattern: <u>FRAMED</u> indicates that the test signals (Set, Reset, and BERT) are framed. UNFRAMED indicates that the test signals (Set, Reset, and BERT) are unframed.
S4	Bipolar Violations: <u>AMI</u> indicates a BPV error for each B8ZS event (if B8ZS coding is being used on the network). B8ZS allows the CSU to be transparent to a B8ZS code coming from the network.
S5	Test Mode: <u>CLEAR</u> allows access to the network via test jacks to run bit error tests (effects network tests only). BERT allows the CSU to send a bit error rate test pattern after the set signal (LOOP) is sent.
S6	Keep Alive: <u>UNFRAMED</u> transmits the Keep Alive signal without framing. FRAMED adds framing information to the Keep Alive signal.
S7	Keep Alive: <u>ALL ONES</u> sends a consecutive sequence of all '1s' back to the network. LINE LOOP BACK sends any signal coming from the network back to the network.

TXPORT
TRANSPORT

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. 255
800-285-2755, ext. 255

Emergency After Hours
Support: 205-603-2193
Manager: 205-603-2194