



The XBER-4 Naval Tactical Data System (NTDS) Type E Serial Switch Bit-Error Rate Tester (BERT) tests the quality of transparent switch channels.

As part of X-COM's line of Commercial-Off-The-Shelf (COTS) NTDS solutions, the rack-mountable XBER-4 can significantly reduce maintenance time and effort. The XBER-4 enables the user to troubleshoot and quickly identify switch channels that do not meet minimum BER requirements. It is designed to cost-effectively meet the unique needs of today's NTDS development, evaluation, and training environments.



▲ Front-panel controls and test points provide access to the NTDS signal lines for detailed analysis

Features

Accurate

50 Ohm impedance maintained through entire signal path to eliminate reflections & voltage fluctuation

Full Data Rate

Simultaneous full data rate operation on all Low Level Serial (LLS) channels

Powerful

Performs direct measurement of the actual bit-error rate on LLS channels

Thorough

Independently tests all four data paths associated with each NTDS LLS channel

Easy to Operate

Front-panel controls including reset, BERT On/Off, channel select, LCD backlight illumination and Packet/Bit mode selects

Easy to Understand

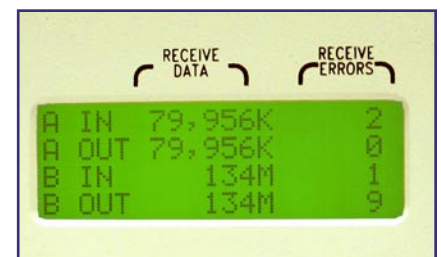
Plain-language status and results display using two 20-character x 4-line LCDs

Rack Mountable

Ruggedized 2U chassis fits into any standard 19" rack

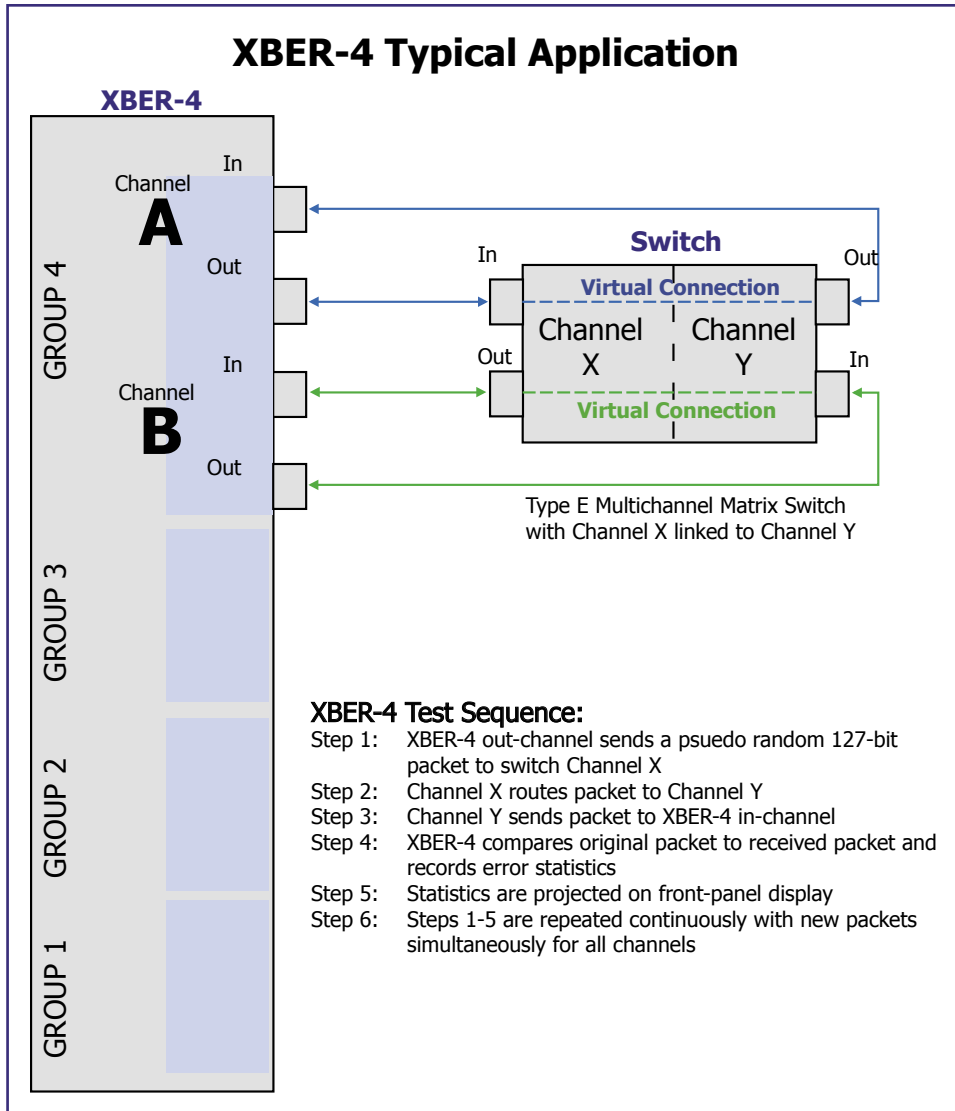
Viewable NTDS Signal

Front-panel test points provide access to the NTDS signal lines for detailed analysis



▲ Plain-language status display

XBER-4 Typical Application



Specifications

Interface:
MIL-STD-1397C Type E

Size:
XBER-4 Chassis:
3 1/2" (2U) H x 15 1/2" D x 19" W
(19" rack mount)

Weight:
Approximately 10 lbs.

Power:
Standard IEC 115 VAC

Control:
Front Panel

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Typical Applications

The XBER-4 is typically used to verify the integrity and quality of communication links that are routed through transparent active and passive switch channels. When connected to any two channels of an active or passive LLS switch, the XBER-4 generates and transmits pseudo randomly-generated packets. The data returned is then compared to directly measure the bit-error rate. The XBER-4 provides a means for technicians to directly measure the quality of NTDS switch channels and significantly reduces system troubleshooting time and effort.



◀ XBER-4 Rear-Panel View