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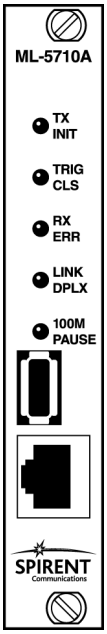
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ML Series SmartCards



ML-5710A SmartCard

- **ML-5710A SmartMetrics 10 Mbps Ethernet**

Card Type: SmartMetrics 10 Mbps Ethernet SmartCard; configurable in two modes (10 Mbps Ethernet and USB)

Where Used: SMB-200 and SMB-2000: one port per card; each card occupies one slot in a chassis.

Applications Supported: SmartWindow, SmartLib.

Devices Tested: Ideal for broadband access devices such as cable modem devices.

Test Objective: Implements sophisticated flow-based stream-based traffic generation, while performing SmartMetrics analysis on receive traffic in real-time and at wire rate. End-to-end performance analysis of cable modem devices and systems.

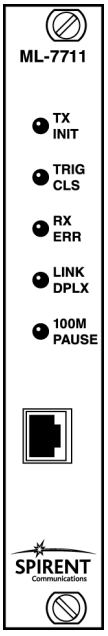
Features:

- Each port can be configured with up to 1,000 streams or VTE's (virtual transmit engine). Each stream generates a customizable stream of Layer 3 data.
- SmartMetrics Testing
- Flow Control (Ethernet only)
- Transmit Error Insertion
- VLAN Tagging
- Background Packet Data Fill Pattern
- Variable Field Data
- Packet Length
- Captured Packets

Additional Features: Additional features can be found in the following tables:

- *Table 9-1, "Ethernet Cards Used in Applications," on page 82*.
- *Table 9-2, "Min/Max Frame Lengths in Bytes for Ethernet Cards," on page 84*.
- *Table 9-4, "10/100 Mbps Ethernet Cards – Feature Set for SmartMetrics Cards," on page 87*.

ML-7710/7711 SmartCards



- **ML-7710A SmartMetrics 10/100 Base-TX Ethernet**
- **ML-7711 SmartMetrics 100 Base-FX Fiber (MT-RJ) Ethernet**

Card Type: ML-7710 and ML-7711.

Where Used: SMB-200 and SMB-2000: one port per card; each card occupies one slot in a chassis.

Applications Supported: SmartWindow, SmartLib, and SmartApplications, SmartMulticastIP, SmartFlow, SmartxDSL, SmartCableModem Test (SCMT), SmartTCP, AST, and VAST.

Devices Tested: Layer 2, 3, and 4 devices and end-to-end systems.

Test Objective: A stream-based traffic generator to generate the equivalent traffic of one fully loaded LAN, in half duplex mode, to perform the following testing:

- Performance measurement and interoperability testing.
- Network-wide Network Layer QoS analysis using IP Precedence Bit.
- Tests compliance to RFCs.

Features:

- Each port supports up to 1000 streams or virtual transmit engines (VTEs). Each stream generates a customizable stream of Layer 3 data.
- Each port can capture up to 475 packets.
- Flow control is Ethernet only. Generates and responds to pause commands per 802.3x.
- Can generate and accept frames with VLAN tags per 802.1p,q and 802.3ax. The user can define the outgoing VLAN tag and 1522-byte frames.

Additional Features: Additional features can be found in the following tables:

- *Table 9-1, "Ethernet Cards Used in Applications," on page 82*.
- *Table 9-2, "Min/Max Frame Lengths in Bytes for Ethernet Cards," on page 84*.
- *Table 9-4, "10/100 Mbps Ethernet Cards – Feature Set for SmartMetrics Cards," on page 87*.
- *Table 9-5, "Comparison of ML-7710 and LAN-3101A Cards," on page 89*.

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