Appendix A - Technical Specifications

Specifications apply to both OMNIScanner and OMNIRemote unless otherwise noted.

Physical Characteristics

OMNISCANNER

- · Dimensions: 8.75" x 4.50" x 2.12" (22.25 cm x 11.4 cm x 5.4 cm)
- · Weight: 2.20 lbs (1 kg)

OMNIREMOTE

- · Dimensions: 8.75" x 4.50" x 2.12" (22.25 cm x 11.4 cm x 5.4 cm)
- · Weight: 1.96 lbs (0.89 kg)

OMNIFIBER

- · Dimensions: 3.54" x 3.88" x 1.55" (9 cm x 9.85 cm x 3.94 cm)
- · Weight: 0.24 lbs (0.11 kg)

User Interface

OMNISCANNER

- · 62 x 62 mm Graphic LCD with backlight
- · Backlit keypad with tactile feedback, numeric input, dedicated functions, four soft functions, and cursor pad
- · Context sensitive help and operating instructions
- · Tone generating audio for warning or other user feedback
- · Date stamp of all tests

OMNIREMOTE LED Displays

- · Pass Indicator (GREEN) for test results
- · Status Indicator (GREEN) for OMNIREMOTE status, various blink rates
- · Fail Indicator (RED) for test results
- · Circuit Guard (ORANGE) for high voltage input protection warning
- · Charge (RED) for OMNIREMOTE low battery status
- · Charge (GREEN) while OMNIR вмоте battery is charging

OMNIFIBER MM LED Displays

- · 850 nm Indicator (GREEN) for transmitting at 850 nm
- · 1300 nm Indicator (GREEN) for transmitting at 1300 nm

- · 850 nm Indicator (ORANGE) for switching fibers
- · 1300 nm Indicator (ORANGE) for switching fibers

OMNIFIBER SM LED Displays

- · 1310 nm Indicator (GREEN) for transmitting at 1310 nm
- · 1550 nm Indicator (GREEN) for transmitting at 1550 nm
- · 1310 nm Indicator (ORANGE) for switching fibers
- · 1550 nm Indicator (ORANGE) for switching fibers

Power

- · Removable, rechargeable battery pack
- · 9.6 Volts @ 1900 mA-Hr NiMH (OMNIScanner2)
- · Built-in fast charger using AC adapter
- · Charging Time: 3½ hours for fully discharged batteries.
- · Battery life: 10+ hours operation (typical)
- · AC: 15 VDC 1 amp AC adapter for continuous operation or charging

Environmental

Operating Temperature:
 Storage Temperature:
 Operating Humidity:
 Operating Humidity:
 Operating Temperature:
 -10°C to 55°C (14°F to 131°F)
 (non-condensing): 5% to 90%

Storage Humidity: 5% to 95%
Regulatory Compliance: C € Class A

Measurement Port (Test Interface)

- · Ultra low Crosstalk test interface that supports testing of all four pairs
- · 160 pin test interface connector which exceeds 10,000 mating cycles
- · Variety of test cables and adapter modules support testing of 110 block and shielded modular jack and plug interfaces

Serial Port

· Connector: DB-9

· Baud Rate: 300 to 57,600 baud

Parity: NoneLength: 8 Bits

· Handshaking: None, RTS/CTS, and XON/XOFF

Universal Serial Bus

- · Type Self Powered Device
- · Link 12 MB/s Full Speed Bulk Transfer with two 128 byte FIFOs and Automatic Retry
- · Connector Type 'B' Receptacle

· Recommended Cable Full Speed Shielded Twisted Pair with A-B Plugs (USB V1.1 Complaint)

MultiMediaCard Interface

· Link 4.6 MB/s SPI Mode with 16 bit CRC

Format
 Socket
 512 byte sector size, 32Bit FAT File System
 Non-Locking Seven Contact with Ejector

· Recommended Media Sandisk SDMB-xx or Infineon MultiMediaCard-F00xx (xx denotes memory size in Megabytes)

Memory

- · Control: Flash Memory allows electronic upgrading of both OMNISCANNER and OMNIREMOTE programs.
- Test Storage: Up to 1000 complete Autotest results can be stored in permanent flash memory. They are not subject to loss due to power or battery failures.

OMNISCANNER Autotest Functions

- · Full suite of tests to determine if cable meets generic cabling or network type requirements.
 - Extended performance range Cabling (CAT 6 and CAT 7)
 - TIA standard Autotests
 - ISO/IEC standard Autotests
 - **Vendor** specific Autotests
 - IEEE standard Autotests
 - **ATM** standard Autotests
 - FDDI standard Autotests
 - **AS/NZ** standard Autotests
 - **ANSI** standard Autotests

OMNISCANNER Test Functions

- · Wire Map
- · NEXT (Near End Crosstalk)
- · Return Loss
- · Attenuation
- · ELFEXT (Equal Level FEXT)
- · ACR (Attenuation to Crosstalk Ratio)
- · Bandwidth
- · Length/Delay
- $\cdot \, Resistance \,$
- · Power Sum NEXT, ACR and ELFEXT
- · Coax Tests: Length, Delay, Impedance, Resistance