



LanXPLORER PRO- In-Line Network Tester - Data Sheet

Connectors	Primary RJ45 test port on left side	Used for: Cable Test, Endpoint Test, In-Line Test	Samtec Lifejack with user-replaceable contacts	500 insertion cycles
	Secondary RJ45 test port on right side	Used for: In-Line Test	Samtec Lifejack with user-replaceable contacts	500 insertion cycles
	Optical test port on left side	Used for: Endpoint test	SFP Socket	-
USB port for result upload & software update at top		Class: Host	Connector Type A	1.1 USB Type
Power port for battery charging, mains powering via adaptor on right side		12V Voltage	Connector Type 2.0 pin power jack	2 Amp Current Centre Pin positive polarity

Controls	Screen:	Touch Screen	Used for: Touch Control of all Tester Functions	Located on front
	On/Off:	Push Button	Used for: Power On/Off	Located on front
	Function Keys:	F1 to F4	Used for: Screen Defined Functions	Located on front
	Navigation Keys:	Cursor, Enter & Escape	Used for: User Interface Navigation	Located on front
		AutoTest	Used for: Launch of automatic test sequence	Located on front
Reset:	Push Button	Used to Escape from exceptional lockup condition	Accessible through hole inside battery compartment using stylus tip	

Displays	Charger LED	Indication of charging status...	Red/Green	Located on front	Screen	LCD
	Primary RJ45 Link LED	ON indicates Primary link UP	Green	Adjacent to socket	Type	QVGA Colour
	Primary RJ45 Activity LED	Flashing indicates Primary link activity	Green	Adjacent to socket	Pixels	320 x 240
	Secondary RJ45 Link LED	ON indicates Secondary link UP	Green	Adjacent to Secondary RJ45 socket	Use	Display of setup functions and results
	Secondary RJ45 Activity LED	Flashing indicates Secondary link activity	Green	Adjacent to Secondary RJ45 socket	Size	3.5 inch diagonal
	Optical Link LED	ON indicates Optical link UP	Green	Adjacent to SFP socket	Location	Front
	Optical Activity LED	Flashing indicates Optical link activity	Green	Adjacent to SFP socket		

Ports - RJ45	Mode	Full Duplex, Half Duplex	Link Pulse Polarity	Normal, Inverted	Auto Negotiation	Disabled or Enabled
	Min. RX size / MAC	19-99 / Factory set	Link Pulse Height	Normal, Low	Speed	10Mbps, 100Mbps & 1Gbps
	Cable Mode Tests	Wiremap, Tone Generator, Auto (Wiremap)				
	Endpoint Mode Tests	Netmap, Ping, PoE, Net Verify, Trace Route, Loopback, Top Ten, Hub Blink, Auto (PoE Load, Ping, Trace Route, Network Verify)				
	In-Line (Monitor) Mode Test	PC Diagnostics, VoIP, Top Ten				
Service Detection	PoE, ISDN s (with audible warning), PBX (with audible warning), Unknown (with audible warning)					
	VLAN	Enabled, Disabled				
	VLAN ID	0 to 4094				
	VLAN Priority	0-7				
	Auto Detect Mode	Cable, Endpoint, In-Line (Monitor)				

Ports - Optical	The following SFP types are supported. Use of other types of SFP is possible but correct operation is not guaranteed					
	SFP Type SX	Manufacturer Part # Avago AFBR-5705Z / Apac LM28-C3S-TI-N-DD	1Gbps	Multimode	850nm	LC Duplex
	SFP Type LX	Manufacturer Part # Avago AFCT-5705Z	1Gbps	Singlemode	1310nm	LC Duplex
	SFP Type ZX	Manufacturer Part # Apac LS48-C3U-TC-N-DD	1Gbps	Singlemode	1550nm	LC Duplex
	Optical Tests	Tx Power μ W (using a specified SFP), Rx Power μ W (using a specified SFP)				
Network Tests	Netmap, Ping, Net Verify, Trace Route, Loopback, Top Ten, Hub Blink, Auto (Ping, Trace Route, Network Verify)					

Ports - WiFi	SSID	Text entry by full virtual keyboard Entry from WiFi scan	Sensitivity	Designed for convenient network testing via local access points. Internal antenna not intended for comparative measurements of distant access points. Included high sensitivity external USB antenna for enhanced detection of lower signal strength access points	
	Encryption	None, WEP, WPA-PSK			
	Key/Key Type	Text entry by full virtual keyboard / ASCII, HEX	Frequency/Mode		2.5GHz / 802.11bgn
	Scan	Signal strength indication, SSID, BSSID, Channel, Mode (802.11b/g/n), Encryption (None / WEP / WPA / WPA2)			
Network Tests	Netmap, Ping, Net Verify, Trace Route, Auto				

In-Line Tests	PC Diagnostics Results	Protocols: Protocol, Frames. Traffic: Host IPv4 address, Peak Mb/s. IP data: Info, IPv4 address, Gateway, Subnet mask, Primary DNS, Secondary DNS, DHCP Server. Link: Errors, Info
	VOIP Test	Protocols: Session Initiation Protocol (SIP), H323
	VOIP Test Setup	VoIP Port 1:1 to 65535. VoIP Port 2: 1 to 65535. Max Jitter Test Threshold (ms): 1 to 999999, Max DelayTest Threshold (ms): 1 to 999999. Max Lost Packets Test Threshold (%):1 to 100
	VOIP Test Results	Call Log: Last 20 calls, Call start time, Destination number, Call length (mm:ss). Jitter: Last successfully connected call (ms to 3 decimal places), according to RFC3550. Delay: Last successfully connected call (ms)

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Cable Tests	Wiremap Setup	Cable Type: Cat3 UTP, Cat3 STP, Cat5 UTP, Cat5 STP, Cat5e UTP, Cat5e STP, Cat6 UTP, Cat6 STP, Cat7, USOC, ETH S12-36, ETH S12-78, ETH U1236, ETH U1278, IND. M12, COAX RJ59. Colour Scheme: None, 568A, 568B, USOC, TERA. Cross Over Allowed: Yes, No. NVP: Fixed 72%, Custom 59% - 89%
	Wiremap Termination Type	None – Open, Passive Remote - #1 - #8, Active Remote - #1 - #12
	Wiremap Tests (No Termination)	Faults: Open circuit by pin, Short circuit by pin. Length of pair: Metres / Feet (Set in System Setup), Range 100m / 390ft
	Wiremap Tests (Passive Remote Termination)	I/D – Remote #: Faults: Open circuit by pair, Short circuit by pin, Crossed pairs. Length of pair: Metres / Feet (Set in System Setup), Range 100m / 390ft
	Wiremap Tests (Active Remote Termination)	I/D–Remote #: Indications on Remote: Voltage Warning (>±10volts on any pins), Pass/Fail. Faults: Open circuit by pin, Short circuit by pin, Crossed pairs, Split pairs, Bridged shorts, Remote shorts. Length of pair: Metres/Feet (Set in System Setup), Range 100m/ 390ft
	Tone Generator Setup	Tones: 3. Wire I/D: Tone applied to one of 8 pins relative to the other 7, Tone applied across one of 4 pairs
	Tone Generator Test	Audible tone detected using compatible tone probe

Endpoint Tests	VLAN	VLAN: Enabled, Disabled. ID: 0 to 4094. Priority: 0 to 7
	IP	Addressing: DHCP, Static. Version: IPv4. Netmask. Gateway. DNS1:Numerical address only. DNS2: Numerical address only
	Netmap Setup	Network: Local, Custom. Address: IPv4 format. Scan Range: Normal (000.255), Wide (015.255)
	Netmap Results	Hosts count : All Hosts, Server Hosts (differentiation based on services / ports), Printer Hosts (differentiation based on services / ports). Host details: Host Name, IPv4 Address, MAC Address, Services Detected
	Ping Setup	Target: IPV4 address, URL. Count: 1 to 999999. Pause: 0 to 5000 ms. Length: 8 to 3000 bytes
	Ping Results	Info: READY, IN PROGRESS, PASSED, NO RESPONSE, UNKNOWN HOST. Tx Count: 0 to 999999. Rx Count: 0 to 999999. Delay(ms): Minimum, Average, Maximum
	PoE Setup	Test Type: PoE, PoE Plus. Min PoE Power Test Threshold: 1 to 15 watts. Min PoE Plus Power Test Threshold: 1 to 28 watts
	PoE Results	Status: READY, FAILED NO POE DETECTED, PASSED. Pair: 12/36, 45/78. Voltage: 0 to 60 volts. Current: 0 to 600 mA. Power: 0 to 36 watts
	Net Verify Setup	Comparison Map: Stored map from previous Netmap test
	Net Verify Results	Hosts count : All Hosts Same / Different, Server Hosts Same / Different, Printer Hosts Same / Different. Host details: Host Name, IPv4 Address, MAC Address, Services Detected
	Trace Route Setup	Target: IPV4 address, URL. Max Hops: 1 to 100. Timeout: 1 to 30 sec. Type: ICMP, UDP
	Trace Route Results	Info: READY, IN PROGRESS, PASSED, NO RESPONSE, UNKNOWN HOST. Hop: IPv4 address. Delay(ms): t1, t2, t3
	Loop Back Setup *	Type: Wireline, MAC, IP, UDP
	Top Ten Setup	Period: 1 sec, 30 sec, Peak
Top Ten Results	Top Ten: Talkers, Errors, Protocols. Host: IPv4 address. Bandwidth: Average Mb/s	
Blink Test	Sequence: Off/10/Off/100/Off/1000 Mb/s	

Statistics	Top Ten Setup	Period: 1 sec, 30 sec, Peak
	Top Ten Results	Top Ten: Talkers (average Mb/s), Errors (Frame Count), Protocols (Frame Count). Host: IPv4 address. Bandwidth: Average Mb/s
	IP Results	Info, Listening, IPv4 address, Gateway, Subnet mask, Primary DNS, Secondary DNS, DHCP Server
	VLAN Results	Rx & Tx: VLAN (Endpoint), Rx & Tx: VLAN (In-Line)
	MAC Results	Rx & Tx: Frames, Total Bytes, Unicast, Broadcast, Multicast, Max Frames/sec, Current Rate bps, Average Rate bps, Max Rate bps, Current Utilisation %, Average Utilisation %, Max Utilisation %, Size
	MAC Discovery	LLDP, CDP, EDP
	Link Results	PORT: PoE Type, PoE Pair, Speed, Duplex, MDI / MDIX, Signal Level, Polarity. PARTNER: 10M-HD, 10M-FD, 100M-HD, 100M-FD, 1000M-HD, 1000M-FD. ERRORS: Collisions, FCS Errors, Undersize, Oversize, Jabbers, Bad Length

Storage	Internal storage configurations	Number of configurations – 2 (Current + Factory settings). Export to USB. Format: .xml
	Internal storage results	Max Number of Jobs (Projects) – 30, Max Number of result sets per Job – 250, Max total number of result sets - 7500. Export to USB. Format: .xml. PC Viewer: Any IE-compatible browser

General	Internal Clock	Used for: Timestamping results. Autonomy: Up to 2 days with battery removed	Dimensions	Length: 205mm, Width: 98 mm, Depth: 45mm
	Power: Battery	Supported Types: Internally rechargeable 6 x AA NiMH cell pack, 6 x AA Alkaline cells. Autonomy: 5 hours minimum (Rechargeable pack only), Recharge time: 3 hours (Rechargeable pack only)	Weight	Unit: 470g, Batteries: 180g
			Temperature	Operating: 0°C to 40°C, Storage: -20°C to 70°C
			Relative Humidity	Min: 5%, Max: 90% non-condensing
			EMC Approvals	EN 55022:2006 / A1:2007, EN55024:1998 / A1:2001 / A2:2003
			Safety Approvals	IEC 60950-1:2005+A1:2009/EN 60950-1:2006+A1:2010

System Setup	Language Preferences	English, German, French, Spanish, Italian
	Auto Off Preferences	Disabled, 3 mins, 10 mins, 30 mins
	Backlight Preferences	Always on, Switch off after 3 mins
	Length / Units Preferences	Metres, Feet
	Software Upgrade	Via USB

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