



Datasheet for LanXPLOER PRO

Interfaces

- Electrical
 - Primary: RJ45 (Field replaceable RJ45 contacts) left for 10/100/1000Mb/s, Duplex: Half or Full, Auto Negotiation: On or Off
 - Secondary: RJ45 (exchangeable PING) right for 10/100/1000Mb/s
- Optical
 - SFP housing left for 1000Mb/s, Duplex: Full, , Rx & Tx power (dBm) indication (Subject to SFP used), Type of SFP supported: SX (850nm) MM, LX (1310) SM, ZX (1550nm) SM,
- Wi-Fi
 - 2.4GHz 802.11b/g/n support with external (USB) high gain antenna and internal built-in antenna
- USB (management)
 - Type A host USB 1.1 used for result/setup/SW upgrade

Configuration and results

- Configuration
 - Internal: 2 configuration files - factory default & user defined; External: export to USB; Format: xml
- Results (internal)
 - Max number of jobs (projects) - 30,
 - Max Number of result sets per Job - 250,
 - Max total number of result sets - 7500.
- Results (external)
 - via USB port to USB memory key or via dedicated Wi-Fi USB adapter to mobile devices (smart phone or tablet)

Test Mode

- End point
 - Copper (RJ45), fibre and Wi-Fi
- In-line(through)
 - Copper (RJ45) only

Wired Test (In-line & endpoint mode)

- PC Diagnostics (in-line mode only)
 - Protocols: Protocol frames counting (HTTP TCP, DNS, UDP, DHCP, IGMP, ARP, ICMP, LLDP etc.); Traffic: Host IPv4, IPv6 address, Peak bandwidth in Mb/s; IP data: IPv4 & IPv6 address, Gateway, Subnet mask, Primary DNS, Secondary DNS, DHCP Server; Link: Errors count and 802.1x activity info
- VOIP (in-line mode only)
 - Signalling (Trace): Session Initiation Protocol (SIP),
 - Port number range on called and calling No:1 to 65535 with calling and called party number and IP address, Codec: PCM A & u law; Packet: Total packet count, Lost packet count, Lost packets %, threshold (%):1 to 100
 - Jitter & Delay (ms): Max, Min, Current, Average on last successfully connected call ; Threshold (ms): 1 to 999999;
 - Jitter: based on RFC3550; Call Log: Last 20 calls, Call start time, Destination number, Call length (mm:ss).
- Top ten
 - Refer to Statistic part



- IP
 - Addressing type: IPv4-DHCP or Static; IPv6- static, stateless and stateful; Netmask., Gateway, DNS1: Numerical address only, DNS2: Numerical address only
- VLAN
 - Auto VLAN ID detection, User setup of end point mode on VLAN ID range: 0 to 4094. Priority: 0 to 7 of endpoint test,
- Netmap (endpoint mode only)
 - Scan Network Range: Local, Custom on specific IP address; Address: IPv4, IPv6; Scan Range: Normal (000-255, /24), Wide (015-255, /20);
 - Hosts category count: All Hosts, Server Hosts (differentiation based on services / ports), Printer Hosts (differentiation based on services / ports).
 - Host details: Host Name, IPv4/IPv6 Address, MAC Address, Services Detected
- NetVerify (endpoint mode only)
 - Netmap comparison: Use previous saved Netmap to compare the difference of IP, MAC address, ports, services and giving new, missing, change, pass or fail indication.
- Conflicts (end point mode only)
 - Detection of the same IP address within the network.
- Ping (end point mode only)
 - Target: IPv4 & IPv6 address, URL. Count: 1 to 999999. Pause: 0 to 5000 ms. Length: 8 to 3000 bytes; Tx Count: 0 to 999999; Rx Count: 0 to 999999. Delay (ms):Minimum, Average, Maximum; Max number of PING at one time: 10
- PoE (Copper only)
 - Type: 802.3af (PoE) & 802.3at (PoE+); Min PoE load Test with Threshold: 1 to 15 watts; Min PoE + load Test with 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
 - Trace Route (End point mode only)
 - IPV4 & IPV6 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 & IPv6 address. Delay(ms): t1, t2, t3
- Loop Back (End point mode only)
 - Type: Wireline (Layer 1), MAC (Layer2), IP (Layer 3), UDP (Layer 4); Loop all traffic: on or off
 - Hub (Port) blink (End point mode only)
 - Test Sequence: Off/10/Off/100/Off/1000 Mb/s (copper) for copper port & Off/1000Mb/s for fibre port
- Optical information (Fibre & end point mode only)
 - SFP availability, SFP vendor name, SFP part number, Tx & Rx power indication in dBm (SFP dependency),
- Autotest
 - Automatic running user selected individual test sequentially: Scan (Wi-Fi), PING (IPv4 & IPv6), TraceRoute (IPv4 & IPv6), NetVerify, Conflicts

Wi-Fi (end point mode)

- Channel Scan
 - Active AP detection, Signal strength indication, SSID, BSSID, Channel #, Mode (802.11b/g/n), Encryption type (None / WEP / WPA-PSK / WPA2-PSK)
- Connectivity
 - Join & leave, Encryption (None / WEP / WPA-PSK / WPA2-PSK), Key : ASCII, Hex; 802.1x authentication
- Tests
 - Netmap, Ping (IPv4 & IPv6), Trace Route (IPv4 & IPv6), Net Verify, Conflicts, Autotest. Details refer to relevant item in wired test category.



Statistics (in-line & end point mode)

- Top Ten (excluding Wi-Fi)
 - Measuring Period: 1 sec, 30 sec, Peak; Talkers, Listeners, Errors, Protocols; Bandwidth: Average Mb/s; Sort address: IP or MAC;
 - Host: IPv4 & IPv6 address.
- IP Results Info
 - Listening (in-line), IPv4 & IPv6 address, Gateway, Subnet mask, Primary DNS, Secondary DNS, DHCP Server
- VLAN (excluding Wi-Fi)
 - VLAN ID auto detection on Rx & Tx on ports
- 802.1x (end points only)
 - Port Status & log, EAP method (MD5, MSCHAP, GTC, TLS, PEAP, TTLS, Any), Phase2 Method, Key management.
- 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 %, Frame size
- Port Discovery Protocol (excluding Wi-Fi)
 - Full decode of LLDP, CDP, EDP
- Link Results (excluding Wi-Fi)
 - 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 frame count: Collisions, FCS Errors, Undersize, Oversize, Jabbers, Bad Length

Cable Test (Copper only)

- 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, Active Remote - #1 - #12
- Wiremap Tests (No Termination)
 - Faults: Open circuit by pin, Short circuit by pin. Length of pair (open only): 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 and detection
 - No. of Tones: 3. Wire I/D: Tone applied to one of 8 pins relative to the other 7, Tone applied across one of 4 pairs; Audible tone detected using compatible tone probe

System

- Clock
 - User setup date & time with format MM/DD/YYYY, Internal clock as time stamp lasts 2 days with battery removed
- Language
 - English, German, French, Spanish, Italian, Portuguese, Chinese



- Battery Power saving
 - Auto Off Preferences: Disabled, 3 mins, 10 mins, 30 mins
 - Backlight Preferences: Always on, Switch off after 3 mins
- Measurement unit
 - Metres, Feet
- Software Upgrade
 - Via USB port
- Test report
 - End user and operator info, User logo insert, Format: PDF & CSV (summary only); Size: Summary, Brief, Full; Results: All, Pass, Fail; Wi-Fi password user change; View & Edit individual test report name, client & operator info. Support IDEAL AnyWARE APP for wireless report transfer to mobile devices with iOS or Android used.

General

- Display
 - 3.5" QVGA (320x240) TFT colour LCD touch screen
- LEDs
 - Link & Activity LEDs' indication on each SFP and RJ45 port
- Battery
 - Rechargeable 6 x AA NiMH low self-discharge cell pack, Autonomy: 5 hours, Recharge time:3 hours (Rechargeable pack only)
- Power
 - Input: AC 110-240V, 0.8A, Plug: UK, EU, US exchangeable
 - Output: DC 12V, 2A with plug
- Dimension
 - Length: 205mm, Width: 98 mm, Depth: 45mm
- Weight
 - Unit: 470g; Batteries: 180g; Total: 650g
- Temperature
 - Operating: 0°C to 40°C, Storage: -20°C to 70°C; Humidity: 5% - 90% non-condensing
- Regulation compliance
 - EMC: EN 55022:2006 / A1:2007, EN55024:1998 / A1:2001 / A2:2003, Safety: IEC 60950-1:2005+A1:2009/EN 60950-1:2006+A1:2010

IDEAL INDUSTRIES NETWORKS DIVISION

Unit 3, Europa Court, Europa Boulevard, Warrington, Cheshire, WA5 7TN, UK.

Tel. +44 (0)1925 444 446 | Fax. +44 (0)1925 445501

uksales@idealnwd.com

www.idealnetworks.net

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