

testing the world's networks



International Portfolio



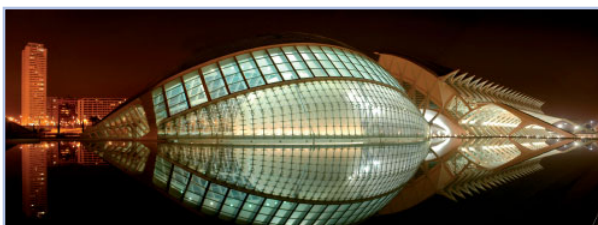
TrendCommunications

Trend Communications is an international company supplying test equipment for field engineers specialised in the installation and maintenance of data, voice, video and connectivity services and networks.



Trend has always been at the forefront of the communications test market, and our strength is based on the robustness and high quality of our products.

Our solutions combine excellence and high technology with ease of use, covering such technologies as Converged Networks, IPTV, VoIP, VoD, HSI, Carrier Ethernet, FTTN, xDSL, ISDN, IP, Gigabit Ethernet, PDH, T-Carrier, SDH/SONET, ATM and Jitter/Wander.



This portfolio outlines our range of testing solutions available through our international sales network.

Trend Communications is a subsidiary of IDEAL INDUSTRIES, INC.

www.trendcomms.com

Trend Multipro Triple Play



Trend Multipro is a rugged handheld test platform designed for field engineers who are responsible for installing and maintaining converged networks. This modular tester currently includes Pluggable Interface Modules (PIMs) for Triple Play, ADSL2+, VDSL2 and Gigabit Ethernet.

This revolutionary service-oriented testing tool ensures the correct end-to-end operation of VoIP, IPTV and Internet access by verifying the service performance as it is experienced by the customer.

Powerful yet easy to use, Trend Multipro is the ideal partner for the world's most demanding operators who are bundling multimedia applications.

Trend Multipro VoIP

Trend Multipro is used by telcos and service providers all over the world to test the Quality of Service of VoIP networks. The tester helps to guarantee effective signalling and reliable service, thus making the IP telephony business more profitable.

IP phone emulation, QoS testing, voice quality assessment (MOS and R factor), detailed signalling protocol analysis and VoIP statistics are just some of the features of this versatile test tool.

Trend Multipro Data

Trend Multipro verifies the operation of broadband data services in next-generation access networks. Data testing features include WWW, HTTP speed and FTP testing (web browser and FTP client included), IP/OAM Ping and Trace Route, DSL Sync test and PPP sign-on tests.

Trend Multipro Video

Trend Multipro is the only handheld tester on the market that displays the video signal directly on screen, as experienced by the customer. The video testing features of the tester include IPTV multicast and VoD service verification, Channel Zap testing, Quality of Experience and Quality of Service testing with H.264/MPEG-4/MPEG-2 support. The MDI, MOS and MPEG transport stream analysis plus TR101 290 make QoS control even better.

TrendMultipro GbE



Trend Multipro GbE has all the features you need to roll out and troubleshoot Ethernet-based next-generation networks and Triple Play applications.

Thanks to its flexible architecture and dual ports to generate and monitor traffic, the tester can be connected to any point on the network.

Trend Multipro GbE can also emulate nodes and terminals, thus making it easier to deliver Ethernet connectivity services, establish Service Level Agreements and install VoIP, VoD, IPTV and Internet applications.

The tester has a full range of test functions: cable and fibre verification; multiple-stream traffic generation, filtering and analysis; full Ethernet statistics with graphical representation of results; RFC 2544 benchmarking test; BER testing as well as MPLS, Q-in-Q and Jumbo frame support.

TrendUnipro GbE

Trend Unipro GbE is an easy-to-use test set for the installation and troubleshooting of Ethernet networks operating at 10/100/1000 Mbit/s. With a weight of only 1 kg and a rugged design protected with an impact-resistant rubber boot, this tester is your best choice for field work and heavy indoor/outdoor use.



Trend Unipro GbE is one of the most cost-effective tools in the market to verify converged networks and Carrier-Grade Ethernet. This handheld tester includes a full range of test functions: cable and fibre verification; PoE measurement; traffic generation, filtering and analysis; RFC 2544 benchmarking test; BERT; IP ping and trace route.

AuroraTango



The Aurora Tango is a modular multitechnology platform for quick and effective testing. It can operate in both One-button mode and Expert mode. The PDA provides a comprehensive, yet easy to use graphical user interface. Swappable modules offer flexibility in testing various technologies.

AuroraTango Gigabit

The Gigabit Ethernet module has a full set of functions that help you to install and maintain links and services operating at 10/100/1000 Mbit/s.

This module provides a range of tests and measurements, such as cable and fibre testing, autonegotiation checks, RFC 2544, Ethernet statistics, BERT G.821 & G.826, IP ping, trace route, bandwidth profile and SLA verification by generating multiple traffic streams.

One or two bidirectional ports for electrical 10/100/1000 Mbit/s or optical 1000BASE-X transceivers support terminate, loopback and monitoring of emerging network connections. An additional Ethernet port provides also cable testing and 10/100 Mbit/s legacy connection support.

AuroraTango SHDSL

The SHDSL module of Aurora Tango enables verification of the copper loop by means of the key digital and analogue parameters that govern SHDSL technology (e.g. statistics, error counters, event tracer). The results are easy to interpret, so it is really straightforward to confirm and identify the performance of the link and analyse the quality of the promised service.



AuroraTango ADSLx

The ADSL option is designed to assist service providers in the volume deployment of ADSL to residential and business customers. The copper loop can be easily verified by means of the key parameters that govern ADSL, ADSL2 and ADSL2+ services.



AuroraTango E1

Telecom and datacom tester up to 2 Mbit/s with dual analyser. G.703 balanced and unbalanced, including codir & contradirectional, V.11, V.24, V.35, V.36 and EIA530 interfaces. All the features needed for in-depth analysis, from pulse mask check to jitter generation and analysis, including transfer and tolerance tests.

AuroraTango ISDN

The Basic Rate ISDN test module with facilities for installation, commissioning and low-level maintenance on the S and U interface. With the fully automated configuration and test process, service characteristics (B-channel usage, service availability, BERT, supplementary services) can be checked with a single key press. Manual mode for problem isolation, fault location and approvals.

VictoriaCombo



Victoria Combo is a future-proof platform for testing optical and metropolitan networks based on a truly modular and stackable architecture. To customise your equipment you can choose between a range of technologies and modules.

You can operate Victoria Combo out in the field by using its touch screen and batteries, or indoors by using a keyboard or mouse and power supply. You can also manage the tester remotely from a computer via a TCP/IP wired or wireless connection.

Victoria Combo NG 2.5G



Victoria Combo NG 2.5G is a high-performance tool for testing Next Generation SDH/SONET up to 2.5 Gbit/s. It has all the features needed to speed up the installation and maintenance of new data-aware SDH networks in a compact, user-friendly battery-operated tester.

With this module you can test metropolitan Ethernet over SDH/SONET networks that use Higher- and Lower-Order Virtual Concatenation, LCAS and GFP. You can also test classic SDH/SONET and legacy PDH/T-Carrier from 1.5 Mbit/s to 2.5 Gbit/s.

The module includes a comprehensive set of functions, such as TCM, APS, M/N alarms, G.783 sequences, pointer events, G.82x, M.21xx, channel tests at E1/DS1 levels, frequency deviation and optical power measurement.

Victoria Combo 10G

Test module with 10 Gbit/s interfaces. Includes a full set of functions for SDH/SONET analysis at 10 Gbit/s, such as programmable frame capture to trace the evolution in the values of management information conveyed by the OH bytes.



Victoria Combo Jitter/Wander



The Victoria Combo Jitter/Wander module is the ultimate tool to guarantee reliable SDH/SONET transmission up to 2.5 Gbit/s.

With this solution, the most competitive in the market, you can analyse any phase impairment or synchronisation issue in your next-generation or classic SDH/SONET networks. You can also check synchronisation networks for clock impairments, as well as jitter and wander, to make sure that standards are met.

VictoriaSTM-16/OC-48

Victoria STM-16/OC-48 is a touch screen handheld tester with all ETSI/ANSI interfaces up to 2.5 Gbit/s.



The tester includes TCM, APS, M/N alarms, G.783 sequences, frequency deviation, n x 64 and 56 kbit/s tests at E1 and DS1 levels. Remote control via a TCP/IP network.

The standard model is upgradable to Victoria Combo, and the Plus model includes all the Victoria SDH/ATM/IP functions.

VictoriaSTM-4/OC-12

This tester has the same features as the Victoria STM-16/OC-48 up to 622 Mbit/s. It also includes ATM cell generation and analysis in concatenated VCs to verify 3G cell-based networks.

VictoriaSDH/SONET/PDH

The Victoria SDH/SONET/PDH shares the features of Victoria STM-16/OC-48 up to 155 Mbit/s. It can be remotely managed through a TCP/IP network. The Victoria SDH/SONET Plus is upgradable by software to the Victoria STM-4/OC-12 model.

VictoriaJitter/Wander

Victoria Jitter/Wander is a unique handheld for clock impairment measurements. It is built on a Victoria SDH/SONET/PDH platform, adding real-time analysis and generation of jitter and wander according to O.171 and O.172. This tester can generate arbitrary modulations with graphical results by means of tolerance and transfer masks. It's ideal for both transmission and synchronisation networks.



VictoriaSDH/ATM/IP

Victoria SDH/ATM/IP has the same functions as the Victoria STM-16/OC-48 up to 155 Mbit/s. It has full ATM capabilities to fulfil the needs of the ATM and 3G/UMTS networks. It includes generation and analysis of ATM flows, QoS, OAM flows, generating and analysing AAL-1, AAL-2, AAL-5, and providing analysis of IP traffic composition. Victoria ATM/IP is a separate model that includes all the ATM and IP capabilities with SDH and SONET functions.



VictorPlus

The Victor Plus is a handheld analyser and generator for telecomms and data networks of 2 Mbit/s and below, with physical interfaces for G.703, V.11, V.24, V.35 and V.36. It performs in-service and out-of-service measurements.



AuroraPresto

Aurora Presto is a handheld tester with multi-layer capabilities for testing Physical, ADSL2, ADSL2+, READSL SHDSL, ADSL over ISDN/ POTS, ATM, PPP, IP and application layers, such as Internet download testing.

It has all the functions needed to install, maintain and troubleshoot Asymmetric and Symmetrical Digital Subscriber Lines and services. Internal interface cards provide various optional modem types, data interfaces and TDR/DMM testing capabilities within one unit.



AuroraForte

Aurora Forte is a powerful and flexible tool for testing the Physical, ATM and IP layer operation during the commissioning, maintenance and troubleshooting of ATM circuits. The tester provides connection to E1, E3, DS1, DS3, ATM25, STM-1/OC-3, STM-4/OC-12 and IMA. Physical and ATM BER testing are included. Aurora Forte can be used with Aurora Presto for multi-layer xDSL testing. Advanced features, such as AAL support, F4 and F5 OAM, QoS, SVC support and IP Ping over ATM, higher protocol analysis and remote control, ideally suit Aurora Forte to 3G/UMTS network testing.



MC2+



The most cost-effective solution for easy while productive service qualification and troubleshooting of ADSL, ADSL2, ADSL2+ and RE-ADSL2.

The tester's features include IP ping test, support for ITU-T G.dmt, G.lite and ANSI T1.413, bridged, PPPoA and PPPoE connections, counters for transmitted and received data, line attenuation and noise margin.

Extremely light and robust, the MC2+ is one of the smallest and handiest testers in the world.

ALT2000

The ALT2000 is the tool for physical qualification, monitoring and maintenance of copper pair subscriber loops. Its advanced features and Pass/Fail testing capacity make it easy for anyone to use. Extensive test capabilities for voice and DSL make it attractive to the specialist needing a high-performance analyser. Ideally suited to qualification of xDSL circuits, this tester includes all the functions you need for copper loop testing.



AuroraSonata



The Aurora Sonata is an all-purpose ISDN test tool for field technicians. Available in a Basic or Primary Rate only configuration or as a combined unit, it provides all the capability needed by technicians to identify almost any problem.

OpticalTesters

Optical Attenuator

Trend's Optical Attenuator provides configurable, precise attenuation to optical links from 2 dB to 60 dB. This tool perfectly complements any tester for optical networks, and it is useful for link simulation and optical margin testing.



Optical Loss Test Set

Trend's Optical Loss Test Set analyses loss in optical fibre links and rings. The outstanding features of this tool include a large memory to store results, external PC software for analysis, and an Auto test that can be used to simultaneously configure compatible testers participating in the measurement.

Optical Power Meter

Trend's Optical Power Meter enables field technicians or laboratory personnel to measure power and loss in optical links. Its InGaAs detector has an exceptional accuracy, combined with an incredibly simple user interface.



Trend's Technical Library:

www.trendcomms.com/library

Trend's On-Line Training Courses:

www.trendcomms.com/training



Trend Communications Ltd.
Whitebrook Park
Lower Cookham Road
Maidenhead
Berkshire SL6 8XY
United Kingdom

TrendCommunications

International: +44 1628 503500
United Kingdom: 01628 503529
France: 01 69 35 54 70
Deutschland: 089 32 30 09 30
España: 93 300 3313
China 010 8518 3141
India: 11 25554161
Email: infoline@trendcomms.com
Web: www.trendcomms.com

Trend Communications Ltd. reserves the right to change the product specifications without prior notification. This document is for information only and does not represent a contractual obligation. All trademarks referred to are the property of their legitimate owners.



A subsidiary of IDEAL INDUSTRIES, INC.