



LAN-WAN Internetworking and Alarm Surveillance System



T:LAN NetPro
e44
Series

The T:LAN LAN/WAN Interconnect System is a family of interworking solutions from Optima Telecom Inc. It incorporates features of a multi-port Ethernet Switch/Router, traditional Console Server and alarm monitoring system.

Optima's universal access platform provides a very cost-effective, scalable, and highly reliable solution for remote LAN access, legacy communications, remote apps deployment and alarms collection.

Remote Connectivity Has Never Been Easier



Optima's T:LAN is ideally suited to extend network management and supervisory control of multi-vendor equipment in central office, co-location, substation, CEV's, cellular, microwave radio, and point-of-presence sites. Each unit comes ready-to-go out of the box. Unpack, rack-mount and hook-up!

Use the T:LAN NetPro Series to extend communication access to remote facilities and NEs (Network Elements) for network management applications such as network surveillance, alarms backhaul, equipment

provisioning, and remote console/TELNET access for field engineers and technicians.

Targeted at the carrier, wireless service provider, CLEC and mobile operator markets, the Optima T:LAN NetPro Series provides the vital link between core/corporate network or remote local area networks (LAN) and wide area networks (WAN).

Built-in Auto-Sensing Ethernet Switch with QoS Features

The switched Ethernet ports keep local traffic from clogging your WAN pipes and eating up valuable bandwidth. The auto-sensing 10BaseT/100BaseTX ports support priority handling and tagging to help you extend QoS features right out to the edge of your network.

Console Server for Third-Party Legacy Systems



Optima's T:LAN even lets you access equipment that was never designed to be remotely managed via IP. Whether you consider it a convenience or a lifesaver, the built-in serial/terminal access server will help you when it counts the most.

Collect Alarms and Manage Remote Equipment

Backhauling of alarms, network surveillance and remote equipment management are just some of the crucial application areas that show how our focus on Integrated Networking can save you time and money when it comes to maintaining your network. Do it all with just one integrated solution: Optima's T:LAN NetPro Series.

When Techs Need to Be In Two Places At Once



Reverse TELNET and Optima's Serial Data Conduit over IP (SDCoIP) are the perfect tools offered by the T:LAN units to help you manage your network during crunch times or when you have to administer your

equipment on opposite ends of the network.

Stay Connected to Your Network

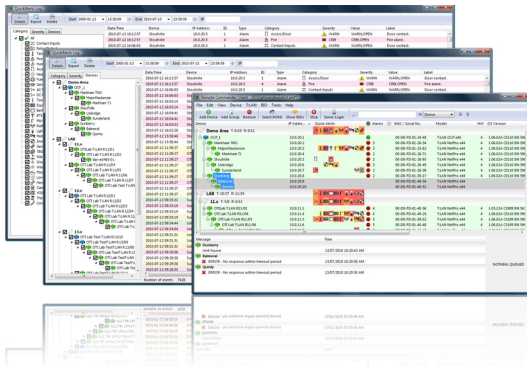
Technicians out in the field can use any of the four switched T:LAN Ethernet ports to connect to the corporate network. Whether they need to file their logs, access new work orders or simply check corporate e-mail on the go, your field personnel will now be able to access the required information without constantly incurring extra charges and having to go through cumbersome access servers.

Avoid Router Complexity

Working with T:LAN units is fast and effortless. Our intuitive, single key-stroke entry style and guided parametric queries produce immediate results. No need to enter long, cryptic commands with a confusing litany of options. And we do not require you and your staff to acquire a degree in router configuration first. Best of all, the T:LAN units work right out of the box. Install, hook-up, then start accessing your newly expanded LAN/WAN network.

Gain Complete Network Element Visibility

Turning up new sites has never been easier. Activate Optima's Link:Guard to monitor your circuits or use SNMP to pinpoint trouble spots early. Get complete coverage and a concise overview about the state of your network by deploying



Optima's T:LAN wherever you grow your infrastructure or require management access.

Compact and Flexible

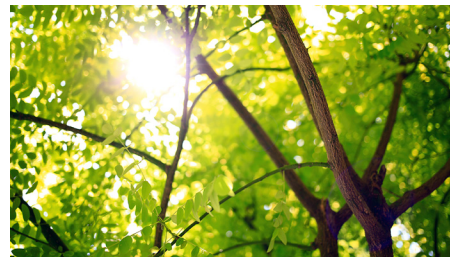
The compact 1U design is ideal even when T:LANs need to be deployed in space-constrained racks. The wide AC or DC input range and low overall power consumption of each unit will be a welcome relief for any power and cooling system, especially those that are already taxed in crowded remote sites.

Embedded Clean-Technology

We have really opened up the T:LAN platform by adding the ability to run a multitude of eco-Applications. The integrated ecoLOGIC Script Engine implements a computer programming language specifically designed for reporting network performance, collecting and processing network surveillance data, gathering network metrics and network statistics, processing environmental sensor inputs, controlling and monitoring on-site equipment including power, environmental, security, and transmission devices.



Turning Your Network Into A Greener Network

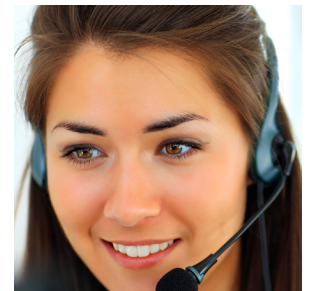


Monitoring and shifting energy usage based on time-of-day rules, accurately tracking network performance over time, fine-tuning GENSET operations, driving down diesel fuel consumption,

optimizing HVAC operations, keeping an eye on the health of all the battery banks in your remote sites will help you turn your network into a greener more efficient network.

Backed Up by Solid Support

At Optima Tele.com we stand behind our products and we will do our best to provide you with prompt and knowledgeable support. No matter whether you are seeking help about our T:LAN NetPro Series or if you want to talk to us about your unique application, please feel free to discuss your requirements with our support staff. We know how to listen and are ready to offer our expert advice.



Features

- Flexible WAN Configurations.
- Four User Configurable 10/100 BaseT Switched Ethernet Ports.
- Four Serial Ports (for Remote Console Access, Expandable up to 20).
- Optional RS-485 MODBUS Port.
- Contact and Analog Inputs for Facilities Monitoring.
- Relay and Power Outputs for Remote Control.
- Internal and Support for External Remote Temperature Sensors.
- Integrated Modem for PPP Connections (Optional).
- Remotely Manageable (Optima RCS, TELNET/SNMP).
- Flexible VLAN Mapping and Traffic Shaping.
- Realtime Alarms Monitoring and Reporting.
- Wall or 19" Rack Mountable, Small Footprint.
- Ultrawide 18-60V DC Input (Optional AC Adapter Available).



Integration

The Key To Success.

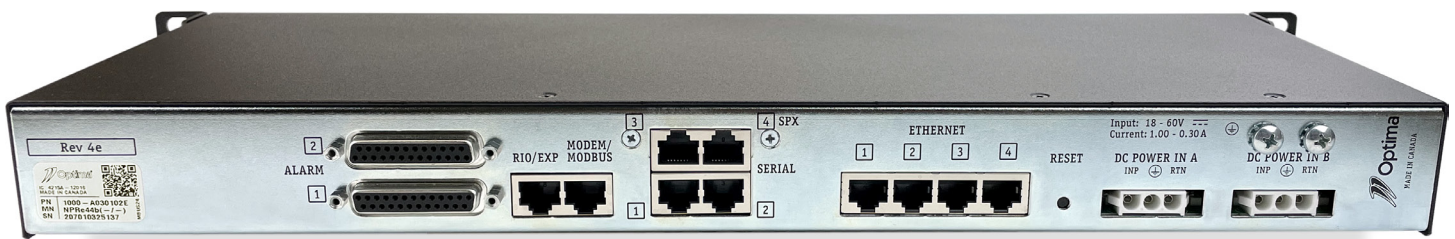
Optima Tele.com, Incorporated is a privately held Canadian high-technology company, situated just north of Toronto right in the center of Canada's electronics industry. The company designs, manufactures and sells integrated network equipment, providing complete solutions that deliver communication and management access to remote facilities and networks.

Since our foundation in 1998 we have assembled a dynamic team of experts, system architects and professionals from a number of different fields. This allows us to offer well-rounded and unique technology solutions together with the expertise our customers demand.

At Optima Tele.com we believe in one simple concept: Integrated Networking. Combining both local and wide area networks into one. Our customers benefit from simplified networks, streamlined architectures, reduced cost-of-ownership, quick deployment and increased performance.

Our product line offers a new degree of flexibility bringing together traditional datacom and telecom applications for today's ISP, CLEC, broadband service providers and telecom carriers. Feel free to talk to us about your networking environment, equipment requirements or your data transport demands. We know how to listen and how to offer expert advice. Rest assured that we are dedicated to complete and total customer satisfaction.





Model e44b Shown

PHYSICAL DIMENSIONS

Size (HxWxD)

4.45cm x 44.45cm x 15.24cm
(1.75in x 17.5in x 6.0in)

Weight

2.3 kg (5.0 lbs)

Mounting

1 RU, fits standard 19in/23in racks, rack-mount (flush/offset/center), table top/shelf mounting, wall mounting

POWER

DC Input

Redundant, wide ranging, 18VDC to 60VDC, positive or negative

Power Consumption

Less than 7 Watts

Fuse Rating

0.75A (GMT type recommended), 1A maximum

Connector

Dual 3 position (+/-FGND), Tyco MATE-N-LOK™, latched

Indicators

Power LED

AC Input (External AC/DC Adapter Option)

Universal input, 90-264VAC, 40 Watts output

ENVIRONMENTAL

Temperature

0 to 50°C (32 to 122°F)

Humidity

Up to 80% relative humidity (non-condensing)

LAN INTERFACES

Type

Switched Auto-Sensing, 10-BaseT, 100-BaseTX, Auto MDI/MDI-X

VLAN Switching

IEEE802.1Q, port based VLANs

Transport

IEEE802.3 traffic, VLAN trunks, ISL, IP/non-IP based protocols

Connectors

4 RJ45

Indicators (Per Port)

Rx/Tx Activity/Link, Full Duplex/Collision, Speed (10/100)

SERIAL INTERFACES

Front Panel Port

Local/Craft RS-232 Interface

Connector

DB9(S)

Configuration

600 to 19.2kBaud, 5 to 8 data bits, 1/2 stop bits, no/odd/even parity, no flow control

Back Panel Ports

RS-232 Serial Interface

Connectors

4 RJ45

Configuration

150 to 115200 Baud, 5 to 8 data bits, 1/2 stop bits, no/odd/even parity, no flow control

Expansion

Externally expandable up to 20 ports via SPX modules

MODBUS Port (Option)

RS-485 Serial Interface

Connectors

1 RJ45

Configuration

150 to 115200 Baud, 5 to 8 data bits, 1/2 stop bits, no/odd/even parity, no flow control

ALARM I/O

Contact Inputs

32 Contact Inputs, ground referenced, triggered by switching to ground or applying a negative voltage (up to -60VDC)

Relay Outputs

3, Form A, 60V 500mA maximum

Analog Inputs

4 Analog Inputs, 2 at ±64VDC (125mV resolution), 2 at ±6.4VDC (12.5mV resolution)

Power Outputs (For External Devices)

2 12VDC Power Outputs (100mA each)

OneWire Interface

1 OneWire Interface for External Remote Temperature Sensors

Connector

2 DB-25 (female)

Power Monitoring

Integrated A and B DC Power Supply Input Monitoring (8mV resolution)

EXTERNAL ALARM EXPANSION (RIO MODULES)

Connector

RJ45

MODEM (OPTION)

Type

V.92

Speed

Up to 56,000bps

Connector

RJ45

PROTOCOLS

Core IP

IPv4 (RFC 791/1122), ICMP (RFC 792), UDP (RFC 768), TCP (RFC 793/9293/2018), ARP/RARP (RFC 826/903/5227), Subnetting & Broadcast (RFC 894/919/922/950)

Management

SNMPv1, SNMPv2c, SNMPv3 (RFC 1157, 1901, 1905-1908, 3411-3418), SNMPv3 USM: SHA-1, SHA-256, SHA-512, AES-128 CFB (RFC 3414, 3826, 7860), MIBs: MIB-II (RFC 1213), IF-MIB (RFC 2863), EtherLike (RFC 3635), Bridge-MIB (RFC 4188), DS1/E1 (RFC 2495)

Security

SSHv2 Server (RFC 4251-4254, RFC 8731, 8709, 8439, 7748, 8032), TLS 1.3 Client (RFC 8446, 8439, 5869, 7748)

Web & IoT

HTTP/1.1 (RFC 7230/7231), WebSockets (RFC 6455), MQTT v3.1.1 (ISO/IEC 20922)

Services

DHCP/BOOTP (RFC 1534/2131/2132), NTP/SNTPv4 (RFC 4330/5905), Telnet (RFC 854-858, RFC 2217)

WAN & PPP

PPP/HDLC (RFC 1661/1662), IPCP (RFC 1332), PAP/CHAP (RFC 1321/1334/1994), BCP (RFC 2878), PPP MIB (RFC 1471)

Ethernet

IEEE 802.3, IEEE 802.1D (Bridging/STP), IEEE 802.1Q (VLAN Tagging)

USER INTERFACE

Browser-based HTTP*, SSHv2*, Telnet, Remote Commander (Standard & Secured UDP), Dial-up Modem/PPP, Local CRAFT/Serial; ANSI/VT-100 terminal emulation, intuitive menu-driven navigation, multi-level role-based security, and embedded on-line help.

* = optional upgrade

SAFETY AND REGULATORY APPROVALS

UL 60950 3rd Edition, CAN/CSA-C22.2 No. 60950-00, IEC 60950, FCC 47 CFR Part 15, FCC 47 CFR Part 68, ICAN CS-03, EN 300-386-21997, EN 550221998, CE

ORDERING INFORMATION

1000-A03010Xx

Base System Only	1
MODBUS Option	2
MODEM Option	6
Rev.4D	D
Rev.4E	E
Rev.4F	F

2000-H100001A	AC Adapter, 110-240Vac to 48Vdc
2000-H010008A	Rack Mount Bracket, 23in to 19in, 1U, Black, Set of 2
2000-H230011C	enviroSENSOR - OneWire INDOOR TEMP, SCREW TERMINALS
2000-H040016A	ALARM I/O CABLE - T:LAN 50ft / 15.24m
1005-A010001A	SPX 08B - Octal Serial (RS-232) Port Expander

Consult Optima Sales for additional alarm cables, sensors and application accessories.



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