Cyclades-TS100 v2

Secure Device Server

The Cyclades-TS100 v2 is a powerful, yet highly compact single-port device server used to connect serial devices to a TCP/IP network. Typical applications include industrial and retail automation, console port management and IP-enabling legacy serial devices.

The TS100 v2 uses its PowerPC dual CPU to transfer data from its 10/100BT Ethernet interface to its RS-232/RS-485 (software selectable) serial interface and vice-versa, enabling communication between the serial device and the network. The Cyclades-TS100 v2 supports SSH v2 (Secure Shell) for a high degree of security in data connections.

Unlike other device server equipment designed with proprietary software technologies, the Cyclades-TS100 v2 leverages Embedded Linux and other Open Source software. Users have the flexibility and power to customize its operation, modifying or adding features as needed.

Although it's the same size of a deck of playing cards, the Cyclades-TS100 v2 has all the power and functionality necessary to take network connectivity to the next level.
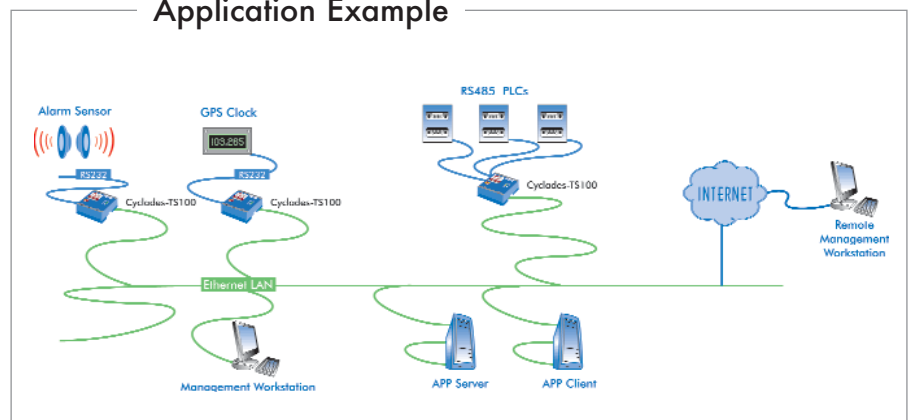
Applications:

- Server and Network Management
- Industrial/Commercial Automation
- Console Port Management
- IP enabling of Legacy Serial Devices

Benefits:

- Secure Network Management
- Easy Integration with the Network and Serial Devices
- Easy Customization
- Rock-solid stability (Linux Inside)

Application Example

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Cyclades-TS100 v2 Specifications

Hardware

CPU:	MPC855T (PowerPC dual-CPU)
Memory:	32MB SDRAM / 16MB Flash
Features:	LED indications for Ethernet and serial port
Interfaces:	1 Ethernet 10/100BT on RJ-45 1 RS-232 DTE on DB-9 or RS-485 DTE on DB-9 or terminal block (software selectable, 230Kbps maximum)
Power:	External Universal AC, 100-240VAC, 50/60 Hz, 5VDC, 5W max
Dimensions (WxDxH):	2.8 x 3.4 x 1.2 in. 7.0 x 8.5 x 3.0 cm (standard 35mm DIN-rail based, 4-module width)
Operating Temperature:	50°F to 122°F (10° to 50°C)
Storage Temperature:	-40°F to 185°F (-40°C to 85°C)
Humidity:	5% to 90% non-condensating
Certification:	FCC Part 15, A EN55022, A
Enclosure:	Noryl VO1550 base, aluminum cover

Part Number	Model	Description
TES1661	Cyclades-TS100 v2	Secure Device Server

Features

Operating System
- Linux®

Security
- SSH v1 and v2
- Local, RADIUS and TACACS+ and LDAP Authentication
- Token-based strong authentication (SecurID)
- Local backup user authentication support
- IP Packet and Security Filtering
- User Access Lists
- System Event Syslog

Console Management
- Break Over SSH support
- Off-line data buffering - Local or Remote (NFS/Syslog)
- Timestamp for data buffering
- Simultaneous access on the same port (port sniffing)
- Event notification (email, pager, SNMP trap)

Port Access
- Directly by TCP port, IP address or server name
- Telnet/SSH with menu
- Raw TCP socket access
- HTTP/HTTPS

System Management
- Configuration wizard for first time users
- Command Line Interface (Linux Shell)
- Web Management Interface (HTTP/HTTPS)
- SNMP

Upgrades
- Upgrades available on FTP site, no charge
- Flash upgradable
- TFTP support for network boot

Customization
- Cyclades Development Kit (CDK) available
  for custom applications, no charge

Additional Protocols Supported
- Modbus/RTU support for industrial automation applications
- DHCP for dynamic IP address assignment
- NTP for time server synchronization
- RFC2217 support for remote serial port access

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