

### 32 Port Telnet and Dial-Up Console/AUX Port Switch Cost Effective Terminal Server Alternative

**Access Your Network  
Equipment's Serial  
Console/AUX Ports . . .  
From Anywhere!**

#### Applications:

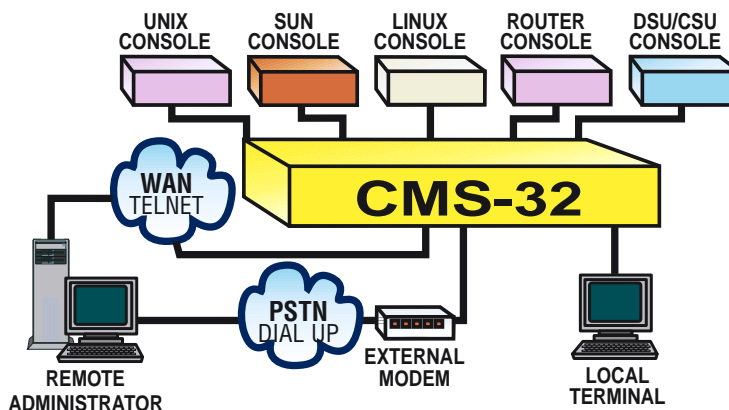
- Local or Remote Console Port Switching
- UNIX Serial Console Management
- Telnet or Dial-Up Access to Consoles at Remote Locations
- Manage Multiple Console Ports Using a Single VT100 Terminal or PC
- In-Band/Out-of-Band Network Management

#### Features:

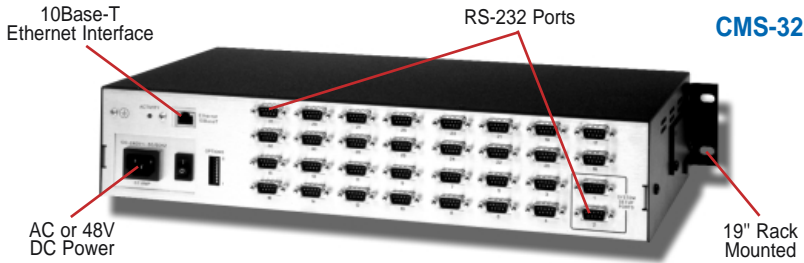
- 32 RS-232 DB-9 Serial Ports (Also available in 8 & 16 port models)
- Simultaneous Telnet Sessions
- Non-Connect Port Buffering
- SYSLOG Reporting
- SNMP Capability
- Any-to-Any Port Switching
- IP Security Features
- 10Base-T Ethernet Port
- Port-Specific Password Protection
- Data Rate Conversion, 300 to 115K bps
- Modem Auto-Setup Command Strings (User Definable)
- Easy-to-Use Menu/Commands
- Menu-Driven or Discrete TCP Port Connections
- 115/230VAC or -48VDC Powered Models



The CMS-32 Console/AUX Management Switch provides secure, in-band and out-of-band access to RS-232 console ports and maintenance ports on UNIX servers, routers and any other network elements which have a serial console or craft port. System administrators can access serial maintenance ports over the network via Telnet connections and simple menu-driven commands, or through a discrete TCP port connection mapped directly to one of the CMS-32 serial outputs. The CMS-32 can also send buffered console messages via SYSLOG, as well as alert via SNMP when incoming console messages are captured. The CMS-32 is ideal for allowing administrators to buffer console data collected in the CMS-32 during non-connect periods, and/or to access console ports through out-of-band connections such as dial-up/external modems or local terminals.



# CMS-32 Console/AUX Management Switch



## Intelligent Port Selection

Each port can be individually accessed by number, name or group via standard Telnet sessions. The CMS also allows direct connections through discrete TCP port assignments mapped directly to a specified serial output. Ports can be individually configured using simple menu driven commands for password, data rate, parity, flow control and many other operating parameters. The full matrix capability of the CMS allows any port to connect to any other port on the switch. Ports can also be connected or disconnected by a third party with supervisor rights. For example, systems managers can swap various RS232 devices between ports at a remote location. Configuration and Status screens display realtime port statistics and activity for one or all ports.

## Security and Co-Location Features

Address-specific IP security masks prevent unauthorized access to the CMS menu over the network. Two levels of operational passwords are also available; the System Administrator level and the User level. The System Administrator level is used to configure the unit, assign passwords, and connect to all ports. The User level allows connections only to assigned ports or portgroups. The User level is ideal for co-location applications, as users can only view status and connect to ports assigned to their password.

## Capture Buffer

The "Buffer Mode" feature allows individual ports to capture and store incoming data. This "snapshot" of the last 32K of received data is stored in non-volatile memory, and can be viewed, saved or erased by the systems operator at any time. Console messages which are stored in the CMS-32 port buffers can be sent to a remote location via SYSLOG, or an SNMP message can be generated to alert administrators when new console messages have been recorded. This is particularly useful in the event that "alarm/error" or other critical data is sent from a specific console port during non-connect periods.

## System Status Screen

```

Terminal Emulation - VT100
File Edit View Call Transfer Help
[Icons]
PORT STATUS: Version 1.00 Site ID: CMS-32 WESTERN TELEMETIC IRVINE CALIF
-----
PORT | NAME | [STATUS] [MODE] [COUNT] | PORT | NAME | [STATUS] [MODE] [COUNT]
-----
01 | LOCAL_TERMINAL_A | C-07 | Any | 0 | 17 | HUB_CRAPT03 | Free | Pass | 0
02 | EXTERNAL_HMODEM | C-19 | Mod | 0 | 18 | HUB_CRAPT04 | C-R3 | Pass | 0
03 | RS485_01 | Free | Any | 0 | 19 | HUB_CRAPT05 | C-02 | Pass | 0
04 | [SUN_CONSOLE_1A | Free | Any | 0 | 20 | HUB_CRAPT06 | Free | Pass | 0
05 | [SUN_CONSOLE_1B | C-R2 | Buf | 20 | 21 | LOCAL_TERMINAL_B | C-11 | Any | 0
06 | [SUN_CONSOLE_1C | Free | Any | 0 | 22 | LOCAL_TERMINAL_C | Free | Any | 0
07 | [SUN_CONSOLE_1D | C-01 | Buf | 27 | 23 | FIREWALL_CONSOLE | Free | Any | 0
08 | [SUN_CONSOLE_1E | Free | Any | 0 | 24 | FIREWALL_CONSOLE | Free | Any | 0
-----
09 | [LINUX_CONSOLE_1A | C-R1 | Any | 0 | 25 | (Undefined) | Free | Any | 0
10 | [LINUX_CONSOLE_1B | Free | Buf | 12 | 26 | (Undefined) | Free | Any | 0
11 | [LINUX_CONSOLE_1C | C-21 | Any | 0 | 27 | (Undefined) | Free | Any | 0
12 | [LINUX_CONSOLE_1D | Free | Buf | 31 | 28 | (Undefined) | Free | Any | 0
13 | ROUTER_1A | Free | Any | 0 | 29 | (Undefined) | Free | Any | 0
14 | ROUTER_1B | Free | Any | 0 | 30 | (Undefined) | Free | Any | 0
15 | ROUTER_1C | Free | Any | 0 | 31 | (Undefined) | Free | Any | 0
16 | ROUTER_1D | Free | Any | 0 | 32 | (Undefined) | Free | Any | 0
-----
Enter #H for command menu.

Connected 0:00:57 | ANSI | Auto detect | SCROLL | CAPS | NUM | Capture | Print echo
    
```

## Specifications

### Network Interface:

10Base-T RJ45; Multi-Session Telnet (16) or Discrete TCP Port Mapped Directly to Serial Output

### RS-232 Interface:

**Connectors:** 32 DB-9M connectors (DTE pinout)

**Coding:** 7/8 bits, even/odd/no parity, 1,2 stop bits.

**Flow Control:** XON/XOFF, RTS/CTS, Both, None.

**Serial Rate:** 300 bps to 115,200 bps

**Timeout:** No Activity disconnects port/modem session; None, 1, 5, 15, 30 seconds 1, 5, 15, 30, 90 minutes.

**Memory:** Stores parameters and captured data. Non-Volatile 32K per port.

**Break:** Send Break or Inhibit Break

**Site ID:** 32 Characters

**Port Name:** 16 Characters per Port

**Password:** 16 Characters per Port

**LEDs:** Power ON, Ready, Net, Data Activity (32)

### Physical / Environmental:

#### Power:

**AC:** IEC-320 Inlet, 100-240 VAC, 50/60Hz, 8 Watts.

**DC:** Terminal Strip (#6-32), -48 VDC, 0.2 Amp Max.

#### Size:

Height: 3.5" (8.8cm)

Width: 17.2" (43.7cm)

Depth: 8.75" (22.2cm)

19" (48.3cm) Rack Mounts Included

23" (58.4cm) Rack Mounts Optional

**Weight:** 12 Lbs. (5.5 Kg) Shipping Weight

**Operating Temperature:** 32°F to 122°F (0°C to 50°C)

**Storage Temperature:** -4°F to 158°F (-20°C to 70°C)

**Humidity:** 10 to 90% RH



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