

# Console and Power Manager

## Five Essential Tools for Your Branch Office IT

### Product Highlights

#### Secure Console Access, Anytime

The CPM Console and Power Manager will allow you to access, manage and maintain your remote networking devices via their serial console port, over your IP network, from your central office location. In the event of a network failure, access is still possible via the CPM's integrated secure modem, ensuring you have complete control all of the time.

Comprehensive security and authentication features on the CPM prevents unauthorised access and ensures the Console and Power Manager integrates seamlessly into your existing corporate security standards.

#### Remote Power Control/Reboot

Reboot locked up equipment instantly without the need for costly site visits. Optionally turn attached equipment on or off at scheduled times, for example, when staff have gone home and at weekends, saving energy costs.

#### Automatic Transfer Switching Or Dual Bus Architecture

Optional automatic transfer switching from your primary power supply to a back-up or secondary supply will provide your single-corded devices with full redundancy even if your primary power source fails. For dual power supply devices, choose our dual power bus CPM to ensure no loss of redundancy.

#### Temperature Monitoring

The CPM constantly monitors your remote rack temperature level with its integral sensor. If the temperature exceeds your pre-defined thresholds, the CPM will notify you immediately ensuring you can take action before high temperatures force a shutdown of your IT systems. The CPM can, if necessary, turn on external fans or air-conditioning to help bring rack temperature back to normal levels.

#### Power Monitoring

Monitor power to all your branch office IT devices and produce live, weekly, monthly and annual trending graphs, without any additional software, giving you unprecedented insight into how much power your individual rack or branch office is consuming.



### Console Management, Power Control and Automatic Transfer Switching in One

**The CPM Console and Power Manager** is an innovative network management solution which provides network administrators with five invaluable tools in one compact 1U rackmountable unit. Designed specifically for remote site locations with small IT installations where there is little or no dedicated on-site IT staff, the CPM will help you resolve networking issues quickly from a central office. Combine console access, remote power reboot, automatic transfer switching, temperature monitoring and power reporting and do away with the need to purchase separate products for each function.

**Console Management** provides secure and reliable remote access to all your IT equipment, alleviating the need for costly and time consuming engineering site visits. Access all your networking devices via their serial console port for re-configuring, rebooting, re-loading and upgrading firmware at a BIOS level. The GUI interface on the CPM means it is easy to configure and install, allowing quick and easy management of all your IT equipment from any location, at any time, minimising response times and travel costs.

**Control power** to all your IT, without having to make a site visit to remote locations. The CPM allows you to perform a remote power reboot of any locked up device, wherever it is located in the world. Return your network to operational status as soon as a problem is detected and maximise uptime.

**Automatic Transfer Switching** is a cost effective way to provide single-corded (single power supply) network devices with dual power redundancy. With the CPM, every single-corded device can now be connected to a redundant power supply at an affordable cost. Seamless power transfer from a primary source to a secondary source means that your equipment is never compromised in the event of a power failure.

**FIVEYEAR**  
WARRANTY

**Your IT is at the heart of your organisation. If it fails, business stops.** Sentinel has over fifteen years' experience in power and console management. With products located in thousands of mission critical IT facilities, ranging from offshore oil and gas installations to global 24/7 rolling news providers, backed up with the highest MTBF in the industry, our track record is second to none. Entrust your business continuity with **Sentinel**.

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### Key Features

#### Serial Console Access and Management

- (8) or (16) RS-232 RJ45 Serial Ports
- Single or Dual In-band 10/100/1000Base-T Ethernet Port(s)
- Out-of-Band Internal V.92 Analogue Modem or 4G LTE Cellular Modem
- Break Command Blocking - Sun Break Safe
- SSH/Telnet/Raw Socket TCP Connection
- Reverse/Outbound SSH

#### Remote Reboot/Power Control

- (8) or (16) IEC C13 Outlets
- On/Off/Reboot/Default/Load Shed Switching
- Outlet Sequencing & Power Up Delay
- Ping No-Answer Watchdog with Auto Reboot

#### Automatic Transfer Switching

- Power Redundancy for Single Power Supply Devices

#### Split Power Bus

- Maintain power redundancy of dual power supply devices

#### Event Monitoring/ Logging/ Alarming

- Temperature Monitoring, Logging and Alarming with Integral Sensor
- Alarming on Lost Communication, Failed Ping Command, Invalid Access Lock-out, Power Cycling, Lost Voltage and Buffer Threshold
- Port Buffering – 256Kb per port
- Time Stamp & Non-Connect Port Buffering
- Alarms via SNMP, email, text message or audibly
- SYSLOG messages
- Audit Log of all user access

#### Power Monitoring

- Meter & Report Amps, Wattage, Voltage and Kilowatt/hours
- True RMS Current Metering
- Outlet, Multi-Outlet and Total Device Metering

#### Security & Authentication

- Embedded Validated FIPS 140-2 Cryptographic Module
- LDAP/Kerberos/RADIUS/TACACS+
- HTTPS/SSL/TLS, SSHv2, SNMPv3
- IP Address Filtering & Multi-Level Subscriber Directory



**Out-of-band management** provides direct access to the console port of the affected IT asset when the network is down. In the case of remote office locations, this option is absolutely indispensable as it removes the need for an engineering call-out to site. By allowing quicker troubleshooting and a fast response, network downtime is shortened considerably. The CPM is available with an optional internal V.92 analogue modem or 4G LTE Cellular modem, ensuring you always have emergency access to your networking devices.

**Troubleshoot** remote network devices and keep network downtime to a minimum. Terminal servers have often been used as console servers but these only provide basic console access with no advanced features such as event monitoring, alarm notification and port buffering. Cisco access servers are still used as improvised console servers but they are not a strategic long term solution as IT infrastructure evolves. Unlike a terminal server, the CPM is specifically designed for console management and will allow quicker troubleshooting by capturing the critical moments preceding a server or networking crash. By buffering data at the individual serial port during non-connect periods, troubleshooting is made easy.

**Monitor** the power of all your attached equipment to better understand your power usage at each remote location. The CPM will measure amps, wattage, voltage and kilowatt-hours and log these measurements to its own non-volatile memory, alleviating the need for external storage. The CPM's on-board Linux web server produces live, weekly, monthly and annual trending graphs and/or power reports so that you know exactly how much power each individual device, rack or data centre is consuming over time; comprehensive power monitoring without additional software costs.

Description	Part Number
CPM-800-2, Console Server + Switched PDU, GigE, (8) RJ45 Serial Ports, (8) IEC C13 Outlets, (2) 16A Inputs	ST320000
CPM-1600-2, Console Server + Switched PDU, GigE, (16) RJ45 Serial Ports, (16) IEC C13 Outlets, (4) 16A Inputs	ST330000
Product Options	
Internal V.92 Analog Modem	ST300001
Internal 4G LTE Cellular Modem	ST300002
Auto Transfer Switch Functionality	ST300010
Dual GigE 10/100/1000 RJ45 Ethernet Ports	ST300100
Per Outlet Current Metering & Alarming	ST301000