



iP 1520 Web Based Power Controller



GENERAL DESCRIPTION

The Juice Goose iP1520 (TM) is an economical microcontroller based power distribution device that can be accessed via Internet or intranet communications using Ethernet or RS232 connection. With this remote access, individual duplex receptacles can be turned on and off and AC power receptacles can be monitored for electrical current flow. The iP1520 has a 20 amp capacity and provides AC line conditioning and surge protection.

FEATURES

The iP 1520 is priced many hundreds of dollars below comparable Ethernet addressable power modules. Yet it features high quality design and construction as well as the most important features needed for web based remote control. It has a 20 amp circuit breaker and power cord for an effective 16 amp current rating. This device can be used to sequence audio equipment on and off, reduce energy consumption by scheduling equipment to be on only when needed, or remote reboot DSPs or other processor based electronics. The Power Cycle (TM) feature can be used to automatically reboot a network data router if network communication is lost.

Each duplex can be individually controlled to turn on and off. And each is individually metered to report current flow. The front of the chassis includes status LEDs and override switches that allow local monitoring and control.

COMMUNICATION AND CONTROL

All the functions of the iP 1520 can be accessed through Ethernet or RS232 ports on the back of the chassis. An on-board web server gives the iP1520 immediate Internet or intranet functionality through a graphic interface that can be accessed via a web browser. Or it can be controlled through RS232 commands using a terminal program or a third party control system.



MONITORING

The iP 1520 allows local and remote monitoring of the operating status of the unit and of connected equipment. The front of the chassis features a white LED that indicates connection to a data network. This light stays on during active network connection and blinks in the event of Ethernet communications failure or RS232 connection. In addition, lighting each of three green LEDs on the front of the chassis indicates a corresponding Power Pod receptacles has been turned on.

This unit can also be remote monitored via the same TCP/IP or RS232 connection used to control it. Current metering on each of the Power Pods reports amperage levels from 0.20 to 20.0 amps and can be accessed through the on-board web server or via RS232 protocol.

FAIL SAFE OVERRIDES

This iP 1520 features three levels of on and off control to provide fail safe operation in the event of system or unit malfunction. First, the iP 1520 can be remote controlled via Ethernet or RS 232 communication links. Second, in the event of network connection failure the switch on the front left of the chassis becomes operational and can be used to turn on the three switched Power Pods in a sequenced fashion. Lastly, in the event of a failure of the internal control circuitry the Manual Override switch of the front of the chassis will cause a hardwired turn on of all switched receptacles.

POWER CONDITIONING

The iP 1520 provides AC line protection and filtration across hot, neutral and ground. In addition to guarding against dangerous voltage surges, this unit uses a multi step filter which includes a series mode component to reduce high frequency common and normal mode noise by up to 70 dB in a range up to 30 Mhz.

DETAIL SPECIFICATIONS

Chassis.....	16 gauge steel with 11 gauge rack mount brackets
Dimensions.....	1.75"H x19"W x 7"D
Weight.....	10 lbs
Circuit Breaker.....	20A thermal on back of the chassis
Technical Current Rating.....	16A
Relay Current Rating.....	30A
Number of Addressable Power Pods.....	Three
Power Input.....	Power cord with NEMA 5/20P connector (NOTE: Requires a 5/20R receptacle.)
Power Output.....	Six Switched NEMA 5/20R, One Unswitched NEMA 5/20R
Input Voltage.....	120 VAC @ 60Hz
Signal Connections.....	Ethernet (RJ-45) RS 232 (RJ-11)
Monitor Features.....	Local and remote, network connection and current level
Operating Temperature Range.....	-10C to +40C

FOR MORE INFORMATION

JUICE GOOSE
Houston, Texas
Phone: 713-772-1404
juicegoose.com