



iBootBar

Installation and Operations

Scope of this Document:

This document covers the installation and operations of Dataprobe's iBootBar series of remote power control units. The following models are covered in this document:

Model	Power Feed / Total Capacity	Outlets	Control
iBB-N15	NEMA 15 Amp	8 x NEMA 5-15	IP Control, Serial Control
iBB-2N15	2 x NEMA 30 Amp	8 x NEMA 5-15	IP Control, Serial Control
iBB-N20	NEMA 20 Amp	8 x NEMA 5-15	IP Control, Serial Control
iBB-2N20	2 x NEMA 40 Amp	8 x NEMA 5-15	IP Control, Serial Control
iBB-C10	IEC C14 10 Amp	8 x IEC C13	IP Control, Serial Control
iBB-2C10	2 x IEC C14 20 Amp	8 x IEC C13	IP Control, Serial Control
iBB-C20	IEC C20 20 Amp	8 x IEC C13	IP Control, Serial Control
iBB-2C20	2 x IEC C20 40 Amp	8 x IEC C13	IP Control, Serial Control

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Ref: iBootBar_v061228e



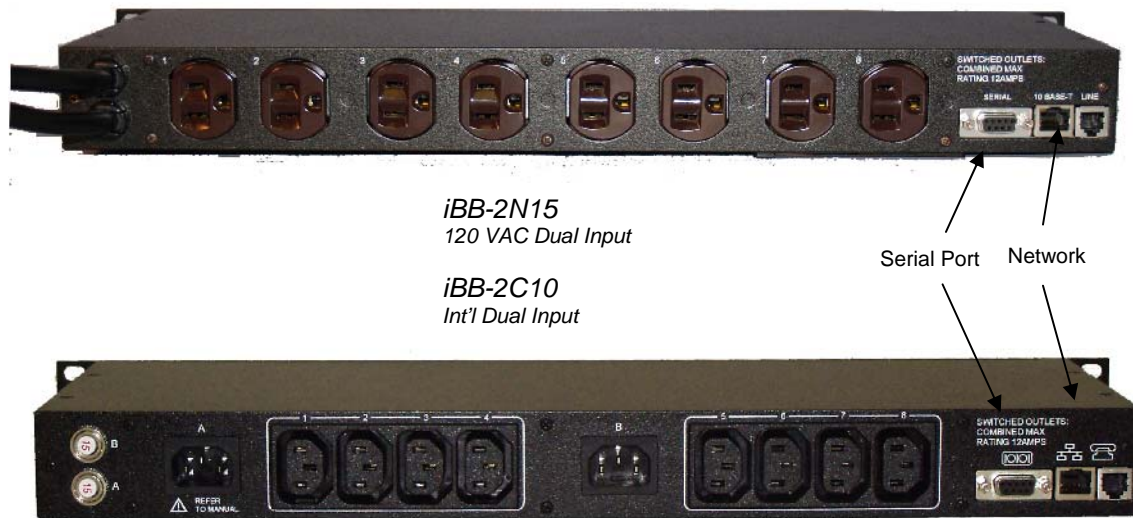
Technical Support Hotline: (201) 934-5111 tech@dataprobe.com
Main: 201-934-9944 Website: dataprobe.com

Important Safety Information

When using this product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings in the manual and marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product in an outdoor environment or near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in this product and the back or bottom are provided for ventilation to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. This product is equipped with a three wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug. Do not use a 3-to-2 prong adapter at the receptacle; use of this type adapter may result in risk of electrical shock and/or damage to this product.
9. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
10. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
11. Never push objects of any kind into this product through slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock. Never spill liquid of any kind on the product.
12. To reduce the risk of electrical shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electric shock when the appliance is subsequently used.
13. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power supply cord or plug is damaged or frayed.
 - b) If liquid has been spilled into the product.
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls, that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e) If the product has been dropped or has been damaged.
 - f) If the product exhibits a distinct change in performance.
14. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
15. Do not use the telephone to report a gas leak in the vicinity of the leak.
16. Do not exceed the maximum output rating of the auxiliary power receptacle.

Quick Start



Default IP address 192.168.0.254
 Default User Credentials Username: admin
 Password: admin

General Overview

The iBootBar (iBB) series is designed to provide power distribution and remote power control. Each iBB allows eight outlets to be independently switched on and off for reboot, energy management and security. The iBB has many features to make the management of power distribution simple and cost effective:

- 8 Independently controllable outlets
- Dual power inputs for redundant power feeds
- Support for dual redundant powered devices
- Naming of outlets for easy identification
- Grouping of outlets for simultaneous management
- Current monitoring with over and under alarm notification
- Multiple users with assigned rights and simultaneous control
- Web Browser Control
- Telnet/Serial CLI control
- Direct UDP via SNMP control
- SNMP manageable
- AutoPing for automatic reboot of crashed systems
- SSL Security (web only)

Installation

Rack Mounting

The iBootBar is designed for mounting in a standard 19" equipment cabinet.

Ethernet

The iBootBar has a 10/100 Ethernet port. The default address is 192.168.0.254

Serial Port

The iBootBar has a 9 pin D subminiature connector for RS-232 serial control. The connector is configured as DCE for direct connection to a laptop or other terminal device. 115,200 bps, 8 data, no parity, 1 stop bit (115200,8,n,1).

Serial Port pinout:

Pin No	Description
1	Data Carrier Detect
2	Receive Data
3	Transmit Data
4	Data Terminal Ready
5	Signal Ground
6	Data Set Ready
7	Request to Send
8	Clear to Send
9	Ring Indicator

Dial Line

No connection in these models.

Expansion

For future applications.

Power Source

The **iBB-N15** provides a linecord for connection to a 15 Amp 115VAC service. The total maximum current load for all outlets on the iBB-N15 cannot exceed 12 Amps.

The **iBB-2N15** provides two linecords for connection to 15 Amp 115VAC services. The total maximum current load for outlets on any linecord cannot exceed 12 Amps. Each linecord distributes power to four outlets.

The **iBB-N20** provides a linecord for connection to a 20 Amp 115VAC service. The total maximum current load for all outlets on the iBB-N20 cannot exceed 16 Amps.

The **iBB-2N20** provides two linecords for connection to 20 Amp 115VAC services. The total maximum current load for outlets on any linecord cannot exceed 16 Amps. Each linecord distributes power to four outlets.

The **iBB-C10** is for international applications and can be used on 100V to 240VAC. The iBB-C10 provides an IEC 320 style universal inlet for connecting a detachable power cord. A standard IEC to CEE7 European cord set is

supplied with the unit for use on 10 Amp 240VAC service*. The total maximum current load for all outlets cannot exceed 12 Amps at 115VAC or 10 Amps when used at 240VAC.

The **iBB-2C10** is for international applications and can be used on 100V to 240VAC. The iBB-2C10 provides two IEC 320 style universal inlets for connecting a detachable power cord. Two standard IEC to CEE7 European cord sets are supplied with the unit for use on 10 Amp 240VAC service*. The total maximum current load for outlets on any linecord cannot exceed 12 Amps at 115VAC or 10 Amps when used at 240VAC. Each linecord distributes power to four outlets.

The **iBB-C20** is for international applications and can be used on 100V to 240VAC. The iBB-C20 provides an IEC 320 style universal inlet for connecting a detachable power cord. A standard IEC to CEE7 European cord set is supplied with the unit for use on 20 Amp 240VAC service*. The total maximum current load for all outlets cannot exceed 16 Amps.

The **iBB-2C20** is for international applications and can be used on 100V to 240VAC. The iBB-2C20 provides two IEC 320 style universal inlets for connecting a detachable power cord. Two standard IEC to CEE7 European cord sets are supplied with the unit for use on 16 Amp 240VAC service*. The total maximum current load for outlets on any linecord cannot exceed 16 Amps. Each linecord distributes power to four outlets.

* Power cords for other countries are available from your local source. If a power cord with a different terminating plug is required, be sure it is properly rated and meets all the required local electrical standards.

Configuration

Accessing the Command Line Interface

All configuration parameters are set using the Command Line Interface (CLI) is accessed through the network, using a telnet client, or through the serial port, using a terminal client.

Open a telnet client and point it to the current IP Address. (Factory Default is **192.168.0.254**)

Connect to the Serial port at 115200 baud, 8 data bits, No Parity, 1 Stop Bit (**115200,8,n,1**)

Upon connection, press Enter, then enter the username and password when prompted (Factory Default for both is **admin**)

A complete list of valid commands and syntax is found on page 9.

Setting the IP Address

iBootBar comes with factory installed IP address 192.168.0.254

There are three techniques to setting the IP address of the iBootBar. The mode used is enabled through the configuration system accessed via Telnet or serial port command line interface.

1. From Telnet / Serial Commands
2. Automatically from a DHCP Server
3. ARP / Ping

To configure the mode to set the IP address, access the iBootBar command line system either through Telnet or the serial port and use the set ipmode command as indicated below.

Setting the IP address using Telnet / Serial

The following commands are used to set the IP parameters

```
set ipaddress <dotted decimal>    ex. 192.168.0.125
set subnet <dotted decimal>       ex. 255.255.255.0
set gateway <dotted decimal>     ex. 192.168.0.2
```

If you wish to prevent DHCP or ARP-Ping from altering the IP Address, also enter the following command

```
set ipmode static
```

Changing any of these values will require a reboot of the unit. Type the command "reboot" as indicated, press the reset pushbutton on the front panel, or remove and restore all power to the iBootBar.

Setting the IP address from a DHCP Server

A DHCP server will automatically assign an IP address (dynamic address) as well as Subnet Mask and Gateway to the iBoot.

To enable this feature, configure the iBootBar with the command `set ipmode dhcp`
Then power cycle the iBootBar, or enter the command `reboot`

To find the address of the iBootBar you will need to query your DHCP server and locate the MAC address of the iBootBar in the DHCP server's IP / MAC table. You can also connect a PC (or other terminal device) to the iBootBar's serial port, login and issue the get network command.

Setting the IP address using ARP / Ping

The ARP / Ping technique uses a PC running a command line (DOS Window) to set the IP Address. To set the IP address using ARP, connect the iBootBar to your local network and apply power. The IP address to be assigned to iBootBar must be use the same network segment as the computer assigning the address. ARP does not work across routed or switched networks.

To set the IP address using ARP, the hardware (MAC) address must be known. This address is located on the bottom of the unit. The syntax for the MAC address is: nn-nn-nn-nn-nn-nn

Windows (98 and Later)

1. Access the iBootBar CLI and enter the set ipmode arp-ping command
2. On a PC, open a DOS window. (Run: Command)
3. Type the following command:
arp -s <IP Address> <MAC Address>
Where <IP Address> is the desired IP address (in dotted decimal) for the iBootBar and the <MAC address> is the MAC Address of the iBootBar. The MAC Address of the iBootBar is located on the rear of the unit.

Example: `arp -s 63.211.86.165 00-50-c2-05-01-c1 <enter>`
`|new IP addr| |---MAC addr----|`

4. Ping the iBootBar to program the IP address into the iBootBar.
Type: ping <IP Address>
Note: If the ping command returns "host not responding" 4 times then the address has not been programmed properly. Check the IP or MAC Address for typographical errors. Repeat step 2. If the problem persists, contact the Dataprobe Tech Support.
5. Delete the entry from the ARP cache by typing:
arp -d <IP Address>
6. Ping the iBootBar to confirm that it has been programmed.
If the iBootBar fails to respond, repeat steps 2-4 above. If the problem persists, contact Dataprobe Tech Support.

Unix, Linux, MAC and others

Consult your systems administrator for information on how to set an IP Address. The unit should be pinged after the IP Address has been set to confirm proper operation.

Other Configuration Settings

All parameters are set using the Telnet / Serial commands. See Page 9 for a complete list.

Basic Operation

Web Interface

The screenshot shows the iBootBar web interface in Mozilla Firefox. The interface is divided into three sections: Header, Control, and Status.

Header: Displays the device name "Dataprobe" and control buttons for "Outlets" and "Groups".

Control: Contains buttons for "On", "Off", "Cycle", "Select All", "Select None", "Refresh", and "Logout". The "Cycle" field is set to 10 seconds and the "Delay" field is set to 1 second.

Status: Displays a table of server status with columns for Server, On/Off, checkboxes, and AutoPing. The table shows 8 servers, with server 2 (File_Server_2) marked as "Triggered". Summary rows show "Total Current 1-4 = 2.1 amps" and "Total Current 5-8 = 0.1 amps".

Server	On/Off	Checkbox	Server Name	AutoPing
1	Off	<input type="checkbox"/>	File_Server_1	Ok
2	Off	<input type="checkbox"/>	File_Server_2	Triggered
3	On	<input type="checkbox"/>	Email_Server_1	
4	Off	<input type="checkbox"/>	Email_Server_2	
Total Current 1-4 = 2.1 amps				
5	On	<input type="checkbox"/>	Gateway	
6	On	<input type="checkbox"/>	Radius	
7	Off	<input type="checkbox"/>	Firewall	
8	Off	<input type="checkbox"/>	VPN_Server	
Total Current 5-8 = 0.1 amps				

The iBootBar web interface provides the easiest means of operating the outlets and monitoring the current status of the units. One or more outlets can be simultaneously controlled with simple mouse clicks. The interface is divided into three sections Header, Control, and Status

Header The Header identifies the iBootBar currently being addressed. It displays the Device Name assigned to it in setup. Two buttons on the Header allow control of the iBootBar either by individual outlets, or by user assigned groups.

Status The Status panel displays the current state of each outlet, and provides a checkbox for each outlet to allow for selection for the next outlet change activity. The bottom of the Status panel shows the current draw of the A/C inputs. In iBootBars with dual inputs, the current draw will be displayed separately for outlets 1 – 4 (Main A) and 5-8 (Main B). If AutoPing is being used, the current status of AutoPing is displayed. Click on the AutoPing status message for more details.

Control The Control panel provides the clickable buttons to cause a change of outlet condition. Once one or more outlets are selected, click on the On, Off, or Cycle button. Cycle will perform a timed change in outlet state (either Reboot for On-Off-On, or Cycle Off-On-Off) depending on the current state of the outlet.

The Cycle timer box allows selection of the length, in seconds of all cycle or reboot operations. Entries of 1 to 99 seconds are valid.

The Delay timer box allows selection of the delay between turning on of each outlet whenever more than one outlet is turned on at the same time. This can be used to prevent over-current draw on initial power up of devices. Entries of 0 to 99 seconds are valid.

The Select All and Select None buttons allow selection or de-selection of all outlets.

Refresh provides an update of the status page to display current outlet conditions.

Logout terminates the session.

Web Operation

To operate any outlet, select it with the checkbox associated with that outlet and then click the On, Off, or Cycle button as required. The page will reload with the current status. If multiple outlets are selected, the page will refresh several times until all outlets have completed their operation.

User Privileges

Each user can be assigned one or more outlets and groups of outlets to manage. The Web interface will only display those outlets that the user has been authorized for.

Grouping Outlets

Outlets can be grouped into logical arrangements to provide simultaneous management. Two outlets can be grouped together to provide control of a single server with dual redundant power supplies. When powering on multiple outlets in a group, there will be a delay between outlets, based on the Delay Time setting. This prevents unwanted current draw. If no delay is desired set the Delay Time to 0.

Telnet / Serial Interface

The telnet and serial interfaces use a human language command line interface that is intuitive and easy to remember. It follows a set/get syntax similar to SNMP.

All configuration is performed from the Telnet / Serial Interface. Below is a listing of all interface commands and syntax.

	Device Commands	Description
	get device name	Each iBootBar can have a name assigned. 20 characters Max, no spaces.
	set device name <name>	
	get current	Returns the current draw for each Main in Amperes
	set password <oldpass> <newpass> <confirm>	Sets the password for the current user
	get cycle	The cycle time is the length of the reboot or power on. In seconds 0 – 99
	set cycle <n>	
	get delay	The delay time is the pause between power up of each outlet when multiple outlets are powered on. 0 – 99
	set delay <n>	
	logout	Ends the session
	The following commands require administrative rights	
	get current alarm	High and Low alarms are used to monitor current conditions and send an alert by email or SNMP when the high or low thresholds are exceeded. From 0.1 to 12.0 (16.0 in 20 amp units) in 0.1 amp increments. Main A and Main B are set separately, but displayed together with the get command.
	set main <a/b> highalarm <nn.n>	
	set main <a/b> lowalarm <nn.n>	
	get console	Display current console configuration
*	set console timeout <30-3600/disable>	Console can be set to automatically logout with no activity for 30 seconds to 1 hr in seconds, or disabled.
*	set console baudrate <baud>	2400, 4800, 9600, 19200, 38400, 57600, 115200
	Set factory defaults	Reset all parameters, including IP address and passwords to factory defaults. Can only be executed from the serial port. Confirmation required.
	reboot	Reboots the iBootBar itself. Use after firmware upload, changing IP or SNMP Manager settings. The status of the outlets will NOT be effected

	Outlet Commands	Description
	get outlets	Returns the status of each outlet the user has rights to.
	get outlet <n>	Returns the status of outlet n
	set outlet <n> <on/off/cycle>	Commands outlet n to power on/off or cycle (reboot or power pulse)
	The following commands require administrative rights.	
	get outlet <n> name	Each outlet can be named for easy identification. 20 characters, no spaces.
	set outlet <n> name <name>	
	get outlet <n> initial.state	Set/Get the initial state of each outlet when the iBootBar is first powered up.
	set outlet <n> initial.state <last/on/off>	
	get outlet <n> autoping	Returns the current AutoPing configuration for outlet <n>
	set outlet <n> autoping ipaddress <dotted decimal>	Set the IP address to be pinged for AutoPing
	set outlet <n> autoping action <action>	Set the action to be performed when AutoPing is triggered. none / on-latch / on-follow / off-latch / off-follow / cycle / cycle-once
	set outlet <n> autoping frequency <0-999>	Set the delay between ping attempts
	set outlet <n> autoping count <0-99>	Set the number of failures to respond to ping before the AutoPing feature is triggered

	Network Commands	Description
	The following commands require administrative rights	
	get network	Display current ipmode, ipaddress, subnet, gateway parameters
*	set ipmode <arp-ping/static/dhcp>	Set the mode of setting the IP address of the iBootBar.
*	set ipaddress <dotted decimal>	Set the current IP address. ipmode must be set to static to use this command.
*	set subnet <dotted decimal>	Set the Subnet Mask
*	set gateway <dotted decimal>	Set the Gateway.
	get web	Display current web enable, web port and ssl enable parameters
*	set web enable <yes/no>	Enable or Disable the Web Server.
*	set web port <1..65535>	Change the Web Server IP port.

*	set web ssl <yes/no>	Select SSL security for the Web Server. Setting to yes requires https:// access and defaults port to SSL standard 443. Setting to no requires http:// access and defaults port to HTTP standard 80.
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get telnet	Display current telnet enable, telnet port parameters
* set telnet enable <yes/no>	Enable or Disable Telnet Server
* set telnet port <1..65535>	Change the Telnet Server IP port.
get snmp	Display current SNMP parameters
* set snmp writecommunity <name>	32char max
* set snmp readcommunity <name>	32char max
* set snmp <n> ipaddress <dotted decimal>	Set up to <n>=1-4 SNMP manager addresses
* set snmp <n> enable <yes/no>	Enable or Disable SNMP for manager <n>
get upload enable	Enable or Disable firmware uploading capability.
* set upload enable <yes/no>	
get email	Setup email delivery of status and alarm changes. Set the server address, return address, username and password needed to authorize email delivery.
set email server <dotted decimal>	
set email address <email recipient address>	
set email username <user name 128 char max>	
set email password <password 128 char max>	
get time	Returns the current time
set time server <dotted decimal>	Set the time manually or use a time server. If a timeserver is used, provide the time zone offset.
set time usents <yes\no>	
set time zone <time zone -12 to 13>	
set time hour <0-23>	
set time minute <0-59>	
set time day <1-31>	
set time month <1-12>	
set time year <2006-2047>	

* - Reboot is required for these settings to take effect. (reboot command, reset button or power cycle unit.)

User Commands	Description
The following commands require administrative rights	
get users	Returns a list of users.
add user <name>	Adds a new user. the new password is automatically created to match the <name>
get user <name>	Returns user <name>'s rights and settings.
set user <name> outlet <n/all> <yes/no>	Sets a user's rights to control one or more outlets.
set user <name> group <group name> <yes/no>	Sets a user's rights to control one or more groups.
set user <name> role <admin/user>	Sets a user's administrator privileges.
set user <name> password <oldpass> <newpass> <newpass>	Sets a user's password. (default is same as name)
set user <name> email <email address 128 char max>	Sets a users email address.
set user <name> sendmail <yes/no>	Enables or Disables a user's receipt of email notifications..
ren user <name> <newname>	Renames a user
del user <name>	Deletes a user.

Group Commands	Description
get groups	Returns a list of groups
get group <name>	Returns a list of outlets in a group
set group <name> <on/off/cycle>	Sets a group's name
The following commands require administrative rights	
add group <name>	Adds a group
set group <name> outlet <n/all> <yes/no>	Adds or Deletes an outlet to a group
ren group <name> <newname>	Renames a group
del group <name>	Deletes a group

Advanced Operations

AutoPing

The AutoPing feature allows iBootBar to automatically detect failed equipment and perform a timed reboot or other power control function (like turning on an indicator or siren). You set any IP address to be periodically pinged. When iBootBar no longer detects a response from the address, the programmed power control function is actuated.

Up to eight IP addresses can be monitored by AutoPing. Each AutoPing monitor is assigned to an outlet.

Ping Address Enter the IP address of the device to be pinged.

Ping Frequency Enter 1 to 999 seconds. The ping will go out to the selected device this often.

Fail Counter Enter 1-99 times the ping needs to fail consecutively before the selected action is taken. When the fail count has been reached, the AutoPing action will be triggered.

Action: Select from

None	AutoPing not used
On – Latch	Upon triggering, iBootBar will power on the assigned outlet and remain so until changed via the web or telnet/serial interface.
On – Follow	Upon triggering, iBootBar will power on the assigned outlet. When the ping response returns, iBootBar will power the off the outlet
Off – Latch	Upon triggering, iBootBar will power off the assigned outlet and remain so until changed via the web or telnet/serial interface.
Off – Follow	Upon triggering, iBootBar will power off the assigned outlet. When the ping response returns, iBootBar will power the outlet on.
Cycle	Upon triggering, iBootBar will cycle the power to the assigned outlet. iBootBar will wait the Ping Frequency x Fail Count; if the response does not return, the power will be recycled again. This will continue until the ping response returns or AutoPing is turned off. Make sure your AutoPing frequency x Fail Count is longer than the time required to reboot your device.
Cycle Once	Upon triggering, iBootBar will cycle power one time. It will not cycle again automatically until the ping response returns and is lost again.

With AutoPing operational, the iBootBar page will display the current status of this feature. The status will be OK to indicate that iBootBar is receiving responses to the ping, or that the fail counter has not yet been exceeded. Click on the Status message to see greater details on the AutoPing status.

If the fail count has been exceeded, the status will change to Triggered. Click on the Status message to see greater details on the AutoPing status.

SSL

The iBootBar can provide Secure Socket Layer (SSL) encryption on the web interface. Enable this feature using the set web ssl yes command from the Telnet / Serial interface.

Note: Use of SSL will slow down the delivery of Web pages.

Email Notification

Email can be automatically sent for outlet changes, AutoPing triggers and current alarms. The necessary parameters for email are set using the Telnet / Serial Interface:

```
set email server <dotted decimal>
set email address <recipients address>
set email username <user name 128 char max>
set email password <password 128 char max>
```

Each user is assigned an email address and email can be turned on or off for that user:

```
set user <name> email <email address 128 char max>
set user <name> sendmail <yes/no>
```

SNMP

Up to four SNMP managers can be set. Each manager will receive Trap notifications for outlet changes, autoping and current alarms. Set the SNMP manager IP addresses using the `set snmp <n> ipaddress <dotted decimal>` command. Enable or Disable SNMP for any manager with the `set snmp <n> enable <yes/no>` command.

Firmware Upgrades

The iBootBar can be upgraded via the network if the upload feature has been enabled using the `set upload enable yes` command on the console interface. To upgrade the iBootBar download the latest version of the firmware and upgrade utility from the Dataprobe website. Contact Dataprobe Tech Support for additional instructions.









Specifications

Physical:

Height: 1U 1.75 in (4.5 cm)
 Width: 19.0 in (48.25 cm)
 Depth: 6.00 in (15.25 cm)
 Weight: 7 lbs (3.25 Kg)

Environmental:

Temperature
 Operating: 0 to 40° C
 Storage: -10 to 85° C
 Relative Humidity 0 to 95%
 Non-Condensing

Input Required	Model	Input	Output	Control
	iBB-N15	N15	8 x N15	I, S,
	iBB-N15-M	N15	8 x N15	I, S, M
	iBB-2N15	2 x N15	8 x N15	I, S, L
	iBB-2N15-M	2 x N15	8 x N15	I, S, M
	iBB-N20	N20	8 x N15	I, S
	iBB-N20-M	N20	8 x N15	I, S, M
	iBB-2N20	2 x N20	8 x N15	I, S
	iBB-2N20-M	2 x N20	8 x N15	I, S, M
	iBB-C10	C14	8 x C13	I, S
	iBB-C10-M	C14	8 x C13	I, S, M
	iBB-2C10	2 x C14	8 x C13	I, S
	iBB-2C10-M	2 x C14	8 x C13	I, S, M
	iBB-C20	C20	8 x C13	I, S
	iBB-C20-M	C20	8 x C13	I, S, M
	iBB-2C20	2 x C20	8 x C13	I, S
	iBB-2C20-M	2 x C20	8 x C13	I, S, M

Key:

Input: N15 NEMA 5-15 Linecord 115VAC 15 Amps combined total switched
 N20 NEMA 5-20 Linecord 115VAC 20 Amps combined total switched
 C14 IEC320 C14 Receptacle 100-240VAC 10 Amps total at 240VAC Max
 C20 IEC320 C20 Receptacle 100-240VAC 20 Amps total at 240VAC Max

Outlet: N15 NEMA 5-15 Receptacle 115VAC 12 Amps Max
 C13 IEC 320 C13 Receptacle 100-240VAC 10 Amps Max

Control I 10/100 Ethernet. Web, Telnet, SNMP.
 Port Assignable for Web and Telnet. SSL on Web control.
 S Serial Port. 115,200 bps. Command Line Interface
 M Internal Modem. V.92 and below. Approved in 50 Countries
 Supports data and DTMF tone control (with voice response)

Compliance Statements

FCC Part 15 Regulation

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Plug the equipment into an outlet on a circuit that is different from the one used by the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation of this device is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

EMC, Safety, and R&TTE Directive Compliance

The CE mark is affixed to this product to confirm compliance with the following European Community Directives:

- Council Directive 89/336/EEC of 3 May 1989 on the approximation of the laws of Member States relating to electromagnetic compatibility;
And
- Council Directive 73/23/EEC of 19 February 1973 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits;
and
- Council Directive 1999/5/EC of 9 March on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

Industry Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe AB respecte toutes les exigences du Règlement Canadien sur le matériel brouilleur.

This product meets the applicable Industry Canada technical specifications

SNMP MIB

enterprises [1.3.6.1.4.1]

-> [1418] -MI- dataprobe

-> [4] -BR- iBootBarAgent

-> [1] -BR- systemSettings

-> [1] *RW* DisplayString

deviceName

-> [2] *RW* INTEGER(Enum)

ipMode

-> [3] *RW* DisplayString

ipAddress

-> [4] *RW* DisplayString

subnetMask

-> [5] *RW* DisplayString

gateway

-> [6] *RW* INTEGER(Enum)

webEnable

-> [7] *RW* Integer32

webPort

-> [8] *RW* INTEGER(Enum)

sslEnable

-> [9] *RW* INTEGER(Enum)

telnetEnable

-> [10] *RW* Integer32

telnetPort

-> [11] *RW* INTEGER(Enum)

updateEnable

-> [12] *RW* Integer32

cycleTime

-> [13] *RW* Integer32

delayTime

-> [2] -TB- snmpManagerTable

-> [1] -TE- snmpManagerEntry

-> [1] *RO* Integer32

snmpManagerIndex

-> [2] *RW* DisplayString

snmpManagerIPAddress

-> [3] *RW* INTEGER(Enum)

snmpManagerEnable

-> [3] -TB- outletTable

-> [1] -TE- outletEntry

-> [1] *RO* Integer32

outletIndex

-> [2] *RW* OCTET STRING

outletName

-> [3] *RO* INTEGER(Enum)

outletStatus

-> [4] *RW* INTEGER(Enum)

outletCommand

-> [5] *RO* INTEGER(Enum)

outletAPStatus

-> [4] -BR- info

-> [1] *RO* Integer32

currentLC1

-> [2] *RO* Integer32

currentLC2

-> [3] *RO* INTEGER(Enum)

numberOfLineCords

-> [5] -NT- outletChange

-> [6] -NT- autoPingFailed

-> [7] -NT- newNotifTyp01

Legend :

AC - Agent Capabilities

AN - Accessible for Notify

BR - Branch

MC - Module Compliance

MI - Module Identity

NA - Not Accessible

NG - Notification Group

NT - Notification Type

OG - Object Group

OI - Object Identity

RO - Read Only

RC - Read Create

RW - Read Write

TB - Table

TE - Table Entry

Technical Support, Returns and Warranty

Dataprobe Technical Support is available 8:30AM to 5:30PM ET to assist you in the installation and operation of this product. To obtain Technical Support call 201- 934-5111, or Email us at tech@dataprobe.com. Please have the following information available when you call:

- Model of Product
- Lot and Version Numbers
- Data of Purchase
- Name of Seller (if other than Dataprobe)

If you purchased this product through an Authorized Dataprobe Reseller, you should contact them first, as they may have information about the application that can more quickly answer your questions.

WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship for a period of One Year from the date of initial purchase. If the product should prove defective within that period, Seller will repair or replace the product, at its sole discretion.

Service under this Warranty is obtained by shipping the product (with all charges prepaid) to an authorized service center. Seller will pay return shipping charges. Call Dataprobe Technical Service at (201) 934-5111 to receive a Return Materials Authorization (RMA) Number prior to sending any equipment back for repair. Include all cables, power supplies and proof of purchase with shipment.

THIS WARRANTY DOES NOT APPLY TO NORMAL WEAR OR TO DAMAGE RESULTING FROM ACCIDENT, MISUSE, ABUSE OR NEGLIGENCE. SELLER MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY EXPRESSLY SET FORTH HEREIN. EXCEPT TO THE EXTENT PROHIBITED BY LAW, ALL IMPLIED WARRANTIES, INCLUDING ALL WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR ANY PURPOSE ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE; AND THIS WARRANTY EXPRESSLY EXCLUDES ALL INCIDENTAL AND CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from jurisdictions to jurisdiction.

WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability of fitness for any specific application.

Dataprobe Inc.