CONNECTION PERFECTION IP Power Socket

Manual

English



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Introduction

Thank you for purchasing the LINDY IP Controlled Power Socket. This product allows you to control the power of your devices over an IP based network. Simply connect to a power supply and your local network then configure the device via a web interface. Once configured, the device can be switched using the buttons on the housing via SNMP commands or by customer created applications.

A web interface allows you to configure the device as well as review the energy consumption and other information. An additional temperature sensor and humidity sensor can be connected to provide more detailed information. Each port also has a watchdog function.

Package Contents

- IP Controlled Power Socket
- CD-ROM containing software and user manual
- This User Manual

Operating Instructions

Connect the IP Power Socket to the power and wait for it to boot. The LED will flash red/green while booting and then stay red when ready to proceed. Connect one end of the Ethernet cable to the Ethernet port of the IP Power Socket and the other end to an Ethernet port on your network. Then connect the power cables from your device to the IP Power Socket.

LED Status

- Red: The device is not connected to Ethernet
- Orange: The device is connected to Ethernet but the TCP/IP settings are not assigned
- Green: The device is connected to Ethernet and it is ready to use
- Blinking red/green: The device is in Bootloader mode

Configuration

Bootloader Mode

In Bootloader mode it is possible to disable password function, update the firmware and restore the default settings using the *GBL_Config.exe* program.

To activate Bootloader mode, press the button while restarting the device. If the device is already running, press "select" and "OK" for 3 seconds. The Bootloader mode will be indicated by the "BOOT-LDR" name change in the window of the *GBL_Config.exe* application.

To restart the firmware without toggling the power ports, press "select" and "OK" for 3 seconds again.

DHCP

When you switch on the IP Power Socket it will automatically look for a DHCP server and request an available IP address. Check the IP address allocated to the device by the DHCP server is the same after every reboot.

Network Settings

To edit the network properties manually you will need the program *GBL_Config.exe*. This program is available on our website www.LINDY.com.

Activate Bootloader and run the *GBL_Config.exe* application. The program will automatically look for any connected devices and display their network configuration.

		Host 05: Windows 2000 Version 5.0. Build 2195
		BootLoader Version: 2.3 GBL v4 uC.ColdFile Fersivale Version: 1.2
Vetwork Configuration	19 Address	Host OS. Windows 2000 Version 5.0, Build 2195 GBL_Conferent v1:35 Issanching devices, please mail 1 devices found
00.19.32.00.01 1A	192.168.0.2	
Netmark: [255.255.255.0	Gateway [192,1680,1	
TOP/IP Settings by DHCP	HTTP Post	
Use HTTP password TCP/AP Settings by DHCP Enable IP AQL	HTTP Post	

If the displayed IP address matches the factory settings (192.168.0.2), there is either no DHCP server available on the network or no free IP address could be allocated.

Enter a free IP address and then enter the Netmask address. Then save the changes by clicking on *Program Device* \rightarrow *SaveConfig.*

You must restart the IP Power Socket for any changes to take effect. Then click on *Search* and the new network configuration details will be displayed.

Configuration via web interface

To configure the IP Power Socket via a web interface, open an internet browser and input *http://IP* address of IP Power Socket/ and presenter and then login. To enter the configuration menu, click *Configuration* on the upper left of the screen.

Configuration: Power Ports

Configuration - Powerports	
Choose Powerport to configure:	Power Port 1
Label:	Power Port 1
 Initialization status: 	C on C off C Rember last state
 Initialization delay: 	0
Repower delay:	0
Reset duration:	10
Enable watchdog:	eves Cho
Watchdog Type:	CICMP @ TCP
 Watchdog Action: 	Reset C Off
Hostname:	
TCP Port:	80
Ping Interval:	10
Ping Retries:	6
	A

IPower Control Plus

Label: A name with a maximum of 15 characters can be entered for each power port.

Initialisation Status: You can define the ports switching state after powering up (on, off, remember last state).

Initialisation Delay: You can delay the switching on of a port by up to 8191 seconds.

Repower Delay: If this function is enabled, the power port can be reactivated after a stated time from switching off.

Watchdog

Electrical devices can be observed while Watchdog is running. Watchdog sends ICMP pings or TCP pings to the device, if the pings are not answered during a defined delay (timed or pings) the power port will reset. You can also restart any attached crashed systems or NAS systems using the Watchdog function.

When watchdog is activated it sends a ping and waits for a reply. During this time the text will be orange. When it receives the first ping the text will turn green. When a power port has been reset Watchdog will send a ping and wait for its first reply.

- Green text: Watchdog is active and is receiving ping replies
- Orange text: Watchdog is activating and is waiting for the first ping reply
- Red text: Watchdog is active and does not receive ping replies any longer

Enable Watchdog: Activate Watchdog on this power port.

Watchdog type: Switch between ICMP ping or TCP ping.

Host IP: Enter the IP address you want Watchdog to monitor.

TCP Port: Enter the TCP port number when using TCP pings. When using ICMP pings a TCP port number is not needed.

Ping interval: Enter the interval time between two pings.

Ping retry: Enter how many times a ping should be repeated before the power port is reset.

Configuration: IP Address

Configuration - IP Addre	\$\$	
Hostname:	EPC-NET-1x	
IP Address:	192.168.1.244	
Netmask:	255.255.255.0	
Gateway Address:	192.168.1.3	
DNS Address:	192.168.1.5	
Use DHCP	€ yes C no	
	Apply	

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Hostname: Enter the Hostname you would like to use. This is the name the IP Power Socket will use to connect to the DHCP server. Try not to use any special characters as this may de-stabilise your network.

IP Address: You can manually input an IP address.

Netmask: You can manually input a Netmask ID.

Gateway: You can manually input the Gateway address.

Use DHCP: If there is no DHCP server on your LAN we recommend you deactivate this function.

You must restart the IP Power Socket for any changes to take effect.

Configuration: IP ACL

Configurat	ion - IP ACL	
Reply ICMP	-Ping requests	€yes C no
• Enable IP F	ilter	€yes C no
1. Grant I	P access to Host/Net	delete odd

IPower Control Plus

The IP ACL (IP Access Control List) acts as an IP filter for your IP Power Socket. You can set it so only active hosts and subnet IP addresses listed can access the IP Power Socket. If you have locked yourself out by mistake, activate Bootloader mode and start the *GBL_Config.exe* application, then deactivate IP ACL.

Reply ICMP-Ping requests: Select yes if the IP Power Socket should react to pings.

Enable IP Filter: Enable or disable the IP ACL.

DHCP and SNMP will only work when the IP ACL is active and if all the necessary servers and clients are registered in this list.

Configuration: HTTP

Configuration - HTTP	
HTTP Port	80
Enable HTML Autorefresh:	€yes C no
Require HTTP Password	Gyes Cho
 Check Password on Start Page 	Cyes @ no
Set new admin password	
repeat admin password:	
Set new user password	[]
repeat user password	

IPower Control Plus

HTTP Port: Enter a number from 1 to 65534 (standard:80). To access the IP Power Socket, input the port number after the IP address e.g. *http://192.168.0.2:80*

Check Password on Start Page: If activated, the user must enter the password before logging in to the web interface.

Require HTTP Password: Choose yes or no to have password protected access. When choosing yes, you must input a *User* and *Admin* password. The password cannot be more than 15 characters long.

Username: *Admin* – Administrators are authorised to switch all ports and to modify settings. Username: *User* – Users are able to switch all ports but are not allowed to modify any settings.

If you forget the password, activate Bootloader mode and start the *GBL_Config.exe* application, then deactivate the password request.

Configuration: Messages

Choose Geneor Port	Temperistum 1 *	
Oenerate Messages:	Wyes C no	
Mastrium Value	0	
• Hysteresia:	0	
Peak measurement period	24Hours	
	Apply	

Configuration Legocal Powerports P Address P ACL - HTTP Managers Bradth Dyslog E-Mail Configuration - Messages - Choose Sensor Part - Choose Sensor Part - Mainmuth Value - Mainmuth Value - Mainmuth Value - Balt measurement panced - Peak measurement panced - ZerHours - Apply - Choose Sensor Part - Apply - Choose Sensor Part - Apply - Choose Sensor Part - Choose

IPower Control Plus

Generate Messages: Select yes or no to configure the device to send alerts via SNMP and Syslog.

Max Value: The sensor will measure the value inputted and generate an alert via SNMP and Syslog.

Min Value: The sensor will measure the value inputted and generate an alert via SNMP and Syslog.

Configuration: Syslog

	roweipung in i	Gardess in Not. 111	ir diamr gra	1019 L. main
Configura	ation - Syslog —			
Enable sy Syslog	slog: 3 server:	ເ _{yes} ດ _ກ	0	
		Apply		

IPower Control Plus

Note: Syslog messages are simple text messages transmitted to a Syslog server using UDP. Linux OS regularly have a Syslog daemon installed, e.g. Syslog-ng. For Windows there are some freeware tools available.

On the following events, the IP Power Socket will send a Syslog message:

- Booting up
- Activation/deactivation of Syslog
- Switching of Power Ports

Enable Syslog: Select yes or no to enable the Syslog.

Syslog Server IP: Input the IP address of your Syslog server.

Syslog Port: Input the port number of the Syslog server.

Sensor (additional option)

The temperature/hybrid sensor can be purchased separately. Connect the sensor to the DIN socket on the front of the device. When connected, the most recent measurement will be displayed in the login window.

	Temperature sensor
Cable length	2m
Connection	Mini DIN
Measurement	-20℃ - +100℃ ±2℃ (max) and ±1℃ (typical)

Hybrid sensor		
Cable length	2m	
Connection	Mini DIN	
Measurement	-20 - +80 Grad, ± 0,5℃ / Moisture 0-100% ±3%	

Firmware update

To update to the latest firmware start the device in Bootloader mode and start the *GBL_Config.exe* application. When the program is running, the devices in the network will be listed on the left of the screen. Select the device to be updated, click on *Program Device Firmware Update* and navigate to the location of the new firmware.

Please contact LINDY for the latest version of the firmware and GBL_Config.exe.

CE/FCC & Recycling Information

CE Certification

This equipment complies with the requirements relating to Electromagnetic Compatibility Standards EN55022/EN55024 and the further standards cited therein. It must be used with shielded cables only. It has been manufactured under the scope of RoHS compliance.

CE Konformitätserklärung

Dieses Produkt entspricht den einschlägigen EMV Richtlinien der EU für IT-Equipment und darf nur zusammen mit abgeschirmten Kabeln verwendet werden.

Diese Geräte wurden unter Berücksichtigung der RoHS Vorgaben hergestellt.

Die formelle Konformitätserklärung können wir Ihnen auf Anforderung zur Verfügung stellen

LINDY Herstellergarantie – Hinweis für Kunden in Deutschland

LINDY gewährt für dieses Produkt über die gesetzliche Regelung in Deutschland hinaus eine zweijährige Herstellergarantie ab Kaufdatum. Die detaillierten Bedingungen dieser Garantie finden Sie auf der LINDY Website aufgelistet bei den AGBs.



WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

Europe, United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

Germany / Deutschland

Die Europäische Union hat mit der WEEE Direktive Regelungen für die Verschrottung und das Recycling von Elektround Elektronikprodukten geschaffen. Diese wurden im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Dieses Gesetz verbietet das Entsorgen von entsprechenden, auch alten, Elektro- und Elektronikgeräten über die Hausmülltonne! Diese Geräte müssen den lokalen Sammelsystemen bzw. örtlichen Sammelstellen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernimmt die Gesamtheit der Gerätehersteller.

France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.

Chaque Etat membre de l'Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.

Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

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