Firmware Upgrade & Instruction

PowerLok Rack PDUs

FW REV	DATE	REVISION		
0.1.0.rc01	APR 20	First release of next generation 7-8000 series PDUs.		
0.1.1.rc01	JUL 21	Correct auto negotiate function permitting 100 Mbps ethernet communications.		
0.2.1.rc01	AUG 21	Improve static IP function.		
0.3.0.rc01	SEP 21	Advancements to network security features.		
0.4.0.rc01	NOV 21	Support added for Envirolok.		
0.4.0.rc02	DEC 21	Linked local correction for automated final test system.		
0.4.0.rc03	MAY 22	Power type 10 and 19 added.		
0.5.0.rc05	JUL 22	Support added for Switchlok		
0.5.0.rc06	AUG 29	Formatting improvements		



Introduction

This document provides instruction to enable the firmware to be upgraded on PowerLok Rack PDUs. PowerLok Rack PDUs are a next generation solution for the mission critical industry. All PowerLOK Rack PDUs are engineered, designed, tested, and manufactured in the United States. FW revision numbers are based on x.y.z.rc# Semantic Versioning, where;

x=Forward and/or backward compatibility conflict y=Adding feature or function z=Code change following release rc=Code change before release

Step 1) Download File

Download the zip file "gv-pdu-upgrade-vx.y.z.rc#" to a folder of your choosing. Unzip the file.

Step 2) Connect to PDU

With the PDU powered up, connect an ethernet cable between one of the PDU's RJ45 ports and your laptop.

Step 3) Locate IP Address

Locate the IP address for the PDU to be updated by scrolling to the ADMIN screen on the PDU's LCD display.



Step 4) Open Web UI

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Open the WEB UI by typing the PDU's IP address into your browser.

Step 5) Enable FTP

Use the following steps to enable FTP on the WEB UI via the ADMIN drop down menu. Note: FTP Enabled automatically closes after one hour.

				Admin 🗸
Network Ad	min			X
PDU Friendly Name:				
Model Number:	PL8204D-10C	MAC Address:	70-B3-D5-A7-0F-AC	1) Open the Admin
Serial Number:	20USK15190001	Port Speed:	100 Mbps	web server.
Firmware Version:	0.0.3.rc02	Hardware Version:	1.1.2	
FTP Enabled				2) Select the FTP Enabled slider.
Settings				
IPv4 Addressing Mod	e DHCD Statio			
IP Address		IPv4 DNS Servers		
Subnet Mask		Primary DNS		
Default Gateway		Secondary DNS		

Step 6) Close All Browser Connections

IMPORTANT! Before proceeding to upgrading the firmware, make certain all browser connections to the PDU are closed. The WEB UI must be closed for the firmware upgrade to proceed. It is recommended that the whole browser application is closed rather than the tab alone.

Step 7) Locate File

Locate the "pdu_upgrade.bat" file in the unzipped folder. Double click to open file.

Step 8) Enter PDUs IP Address

When the following screen appears, type in the IP address for the PDU being upgraded and press the ENTER key.

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Step 9) Firmware Upgrade Process

IMPORTANT: During the "countdown" shown on the update screen during the upgrade process, the display states: "Press a key to continue..." DO NOT PRESS ANY KEY.

Allow the countdown to continue to zero and wait for the following screen to appear showing the completion of the firmware upgrade.

C:\WINDOWS\system32\cmd.exe	_	×
What is the IP Address of the PDU?169.254.70.53 -rw-rw-rw- 1 owner group 0 Jan 01 2000 rebootupdate curl: (56) Recv failure: Connection was reset		^
Waiting for 0 seconds, press a key to continue % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed		
100 906k 0 0 100 906k 0 72684 0:00:12 0:00:12::- 41488 -rw-rw-rw- 1 owner group 928256 Jan 01 2000 application.img -rw-rw-rw- 1 owner group 0 Jan 01 2000 reboot		
Press any key to continue		

Step 10) Exit the Firmware Upgrade Program

When the previous step is complete, press the ENTER key to exit the firmware upgrade program.



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Step 11) Confirm Update on ADMIN Screen

Scroll to the ADMIN screen and verify the desired firmware version is displayed.

ADMIN
Friendly Name: PowerLok PDU2
Serial Number: 20US0K1190001
Firmware Ver.: 0.3.0.rc01
IP Address: (static) 198.168.2.100
IPv6 Address: 007A:491D:DC1A:F074
MAC Address: 70:E0:1B:23:CD:45
< >

REBOOTING A PDU MICRO CONTROLLER

If the PDU application is non-responsive on the PDU itself or from the web application, you can reboot the micro controller to restore functionality. Rebooting the micro controller does not interrupt power the PDU receptacles. Insert a pin no larger than .030" (0.75mm) diameter to press and reset the switch. There is currently a misalignment with the underlying metal and some precision is required to access the reset switch. When the switch is activated, the PDU screen will go blank for a moment before rebooting. This is a SELV (Safety Extra Low Voltage) section of the PDU and no harm can come to the user.



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TROUBLESHOOT

A. If the FTP is not enabled through the WEB UI, the following screen will be displayed if a firmware upgrade is attempted:



B. If the IP address is incorrectly typed in, the following screen will be displayed after a pause of several seconds:



C. If the WEB UI is still open when attempting a firmware upgrade, the following screen will appear after several seconds:



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