

MasterSwitch VM

Power Distribution Unit

AP9221X166 AP9221EXP166

User Guide



Raritan v. Server Technology



Thank You!

Thank you for selecting APC's MasterSwitch VM (vertical-mount) power distribution unit (PDU). It has been designed for many years of reliable, maintenance-free service. APC is dedicated to the development of high-performance electrical power conversion and control products. We hope that you will find this product a valuable, convenient addition to your system.

Please read this manual! It provides important configuration and operating instructions that will help you get the most from your MasterSwitch VM power distribution unit. See the *Installation Manual* included with MasterSwitch VM and on this CD for more detailed information on installing and setting up the unit.



APC MasterSwitch VM

Contents

Chapter 1-	—Introduction 1
Product	t Description1
	Overview 1
	MasterSwitch VM 2
	MasterSwitch VM Controller 3
	LEDs 5
Operati	ng MasterSwitch VM6
	Overview 6
	Initial setup 6
	Configuring outlets for operation 6
	Current sensing 11
	Overload Outlet Restrictions 11
	Overload Audible Alarm 11
	Low Current Threshold 11
Chapter 2-	– Managing MasterSwitch VM 12
Introdu	ction
	Overview 12
	Contents 12
Manage	ement Interfaces13
	Overview 13
	Web interface 13
	Web interface: accessing 13
	Web interface: logging on 14
	Control Console interface 14
	Control Console: accessing 15
	Control Console: structure 15



Contents, continued

Passwoi	rd-Protected Accounts 16
	Overview 16
	Account access 16
	Administrator 17
	Device Manager 18
	Outlet User 19
Chapter 3-	– Menu Items
Introdu	ction
	Overview 20
Outlets	21
	Overview 21
	Control actions 21
	Synchronization set configuration 22
MasterS	Switch VM
	Overview 23
	Unit Configuration 23
	Outlet Configuration 24
Networ	k25
	TCP/IP 25
	TFTP/FTP 26
	Telnet/Web 26
	SNMP 27
System	
·	Overview 29
	User Manager 29
	Outlet User Manager 30
	Identification 31
	Date/Time 31
	File Transfer 32
	Tools 33
	Links 33



Contents, continued

Help	34
	Overview 34
	Contents 34
	Interactive Assistant 34
	About Card 34
Chapter 4—	-Security35
Security	Features35
	Overview 35
	Port assignments 35
	User names, passwords and community names 35
Authent	ication36
	Authentication versus encryption 36
	MD5 authentication 36
	Interface MD5 authentication 37
Chapter 5 —	-Product Information38
Warrant	y Information38
	Limited warranty 38
	Obtaining service 38
	Warranty limitations 38
Troubles	shooting39
	Overview 39
	Troubleshooting suggestions 39
	If problems persist 40
Life-Sup	port Policy41
	General policy 41
	Examples of life-support devices 41
Specifica	ations
	Product specifications (AP9221X166) 42
	Product specifications (AP9221NX166) 43
	:::



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

