Function	Factory Default	Options	Description
Low Transfer Point	100 Vac: 92 Vac	• 86 Vac • 88 Vac • 90 Vac • 92 Vac	Set the transfer point lower if the utility voltage is chronically low and the connected equipment can tolerate this condition.This setting may also be adjusted using the power quality setting. **Note:** Use the Advanced Menus to configure this setting.
	120 Vac: 106 Vac	• 97 Vac • 100 Vac • 103 Vac • 106 Vac	
	208 Vac: 182 Vac	• 170 Vac • 174 Vac • 178 Vac • 182 Vac	
	230 Vac: 208 Vac	• 196 Vac • 200 Vac • 204 Vac • 208 Vac	
Nominal Output Voltage	100 Vac	N/A	Set the nominal output voltage of the UPS on battery. This is available on 230 Vac models only.
	120 Vac	N/A	
	230 Vac	208-252 Vac	
Transfer Sensitivity	High	High, Reduced, Low	Select the level of sensitivity to power events that the UPS will tolerate. • High: The UPS will go on battery power more often to provide the cleanest power supply to the connected equipment. • Low: The UPS will tolerate more fluctuations in power and will go on battery power less often. If the connected load is sensitive to power disturbances, set the sensitivity to High.
Low Battery Warning	120 sec	Set the value in seconds	The UPS will emit an audible alarm when the remaining runtime has reached this level.
Date of Last Battery Replacement	Date set at factory	Reset this date when the battery module is replaced.	
Audible Alarm	On	On/Off	The UPS will mute all audible alarms if this is set to Off or when the display keys are pressed.
Battery Self-Test Interval Setting	On start-up and every 14 days since the last test	• Never • Start-up only • Frequency of test (every 7 to 14 days)	The interval at which the UPS will execute a self-test.
Reset to Factory Default	No	Yes/No	Restore the UPS factory default settings.

Main Outlet Group and Switched Outlet Group

Overview

The Main Outlet Group and the Switched Outlet Group can be configured to independently turn off, turn on, shut down, and reboot connected equipment. (These features are not available on the 750 VA tower units.)

The Main and Switched Outlet Groups can be configured to do the following:

- Turn off: Disconnect from power immediately and restart only with a manual command.
- Turn on: Connect to power immediately.
- Shutdown: Disconnect power in sequence, and automatically reapply power in sequence when utility power becomes available.
- Reboot: Shut down and restart.

In addition, the Main Outlet Group and the Switched Outlet Group can be configured to do the following:

- Turn on or off in a specified sequence
- Automatically turn off or shut down when various conditions occur

Note: If the Main and Switched Outlet Groups are not configured, all of the outlets on the unit will still provide battery back-up power.

Using the Main and Switched Outlet Groups

The Main Outlet Group functions as a master switch. It will turn on first when power is applied, and shut off last when there is a power outage and battery runtime has been exhausted.

The Main Outlet Group must be turned on for the Switched Outlet Group to turn on.

1. Connect critical equipment to the Main Outlet Group.
2. Connect peripheral equipment to the Switched Outlet Group.
   - Nonessential equipment that should shut off quickly in the event of a power outage to conserve battery runtime can be added to a short power off delay
   - If equipment has dependent peripherals that must restart or shut down in a specific order, such as an ethernet switch that must restart before a connected server, connect the devices to separate groups
   - Equipment that needs to reboot independently from other equipment should be added to a separate group
3. Use the Configuration menus to configure how the Switched Outlet Group will react in the event of a power outage.

Customize the Main and Switched Outlet Groups

Use the **Control** menus to change the Main Outlet Group and the Switched Outlet Group settings.

Function	Factory Default	Options	Description
Name String Outlet Group	Outlet Group 1	Edit these names using an external interface, such as the Network Management Card Web interface.	
UPS Name String	UPS Outlets		
Turn On Delay	0 sec	Set the value in seconds	The amount of time the UPS or the Switched Outlet Group will wait between receiving the command to turn on and the actual startup.
Turn Off Delay	• 0 sec (UPS Outlets) • 90 sec (Switched Outlet Groups)	Set the value in seconds	The amount of time that the UPS or the Switched Outlet Group will wait between receiving the command to turn off and the actual shut down.
Reboot Duration	8 sec	Set the value in seconds	The amount of time that the UPS or the Switched Outlet Group must remain off before it will restart.
Minimum Return Time	0 sec	Set the value in seconds	The amount of battery runtime that must be available before the UPS or the Switched Outlet Group will turn on.
Load Shed On Battery	Disabled	• Shutdown with Delay • Shutdown immediately • Turn off immediately • Turn off with delay • Disabled	When the unit switches to battery power, the UPS can disconnect power to the Switched Outlet Group to save runtime. Configure this delay time, use the LOAD SHED TIME WHEN ON BATTERY setting.
Load Shed Time when On Battery	Disabled	Set the value in seconds	The amount of time the outlets will function on battery power before they will turn off.
Load Shed On Runtime	Disabled	• Shutdown with delay • Shutdown immediately • Turn off immediately • Turn off with delay • Disabled	When the battery runtime falls below the specified value, the Switched Outlet Group will turn off. Configure this time using the LOAD SHED RUNTIME REMAINING setting.
Load Shed On Runtime Remaining	Disabled	Set the value in seconds	When the remaining runtime reaches this level, the Switched Outlet Group will turn off.
Load Shed on Overload	Disabled	• Disabled • Enabled	In the event of an overload (greater than 100% output), the Switched Outlet Group will immediately turn off to conserve power for critical loads. The the Switched Outlet Group will only turn on again with a manual command.

Network Management Card Settings

These settings are available only on units that have a Network Management Card (NMC) and are set in the factory. These settings can only be modified using an external interface, like the NMC web interface.

- NMC IP Address Mode
- NMC IP Address
- NMC Subnet Mask
- NMC Default Gateway

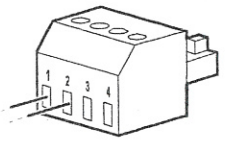
Emergency Power Off

EPO Overview

The Emergency Power Off (EPO) option is a safety feature that will immediately disconnect all connected equipment from utility power. The UPS will immediately shut down and will not switch to battery power.

The UPS must be manually restarted to reapply power to connected equipment. Press ON/OFF on the front panel of the unit.

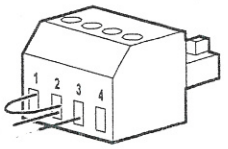
Normally open contacts



1. If the EPO switch or relay contacts are normally open, insert the wires from the switch or contacts at pins 1 and 2 of the EPO terminal block. Use 16-28 AWG wire.
2. Secure the wires by tightening the screws.

If the contacts are closed, the UPS will turn OFF and power will be removed from the load.

Normally closed contacts



1. If the EPO switch or relay contacts are normally closed, insert the wires from the switch or contacts at pins 2 and 3 of the EPO terminal block. Use 16-28 AWG wire.
2. Insert a wire jumper between pins 1 and 2. Secure the wires by tightening the three screws at positions 1, 2, and 3.

If the contacts are opened, the UPS will turn OFF and power will be removed from the load.

Note: The power for operating the EPO circuit is sourced from pin 1. This is an isolated 24 V which can source only a few milliamperes.

If the normally closed (NC) EPO configuration is used, the EPO switch or relay should be rated for dry circuit applications, the rating should be for low voltage and low current applications. This normally implies the contacts are gold plated.

Adhere to all national and local electrical codes when wiring the EPO. Wiring must be performed by a qualified electrician.

The EPO interface is a Safety Extra Low Voltage (SELV) circuit. Connect the EPO interface only to other SELV circuits. The EPO interface monitors circuits that have no determined voltage potential. SELV circuits are controlled by a switch or relay properly isolated from utility power. To avoid damage to the UPS, do not connect the EPO interface to any circuit other than a SELV circuit.

Use one of the following cable types to connect the UPS to the EPO switch.

- CL2: Class 2 cable for general use.
- CL2P: Plenum cable for use in ducts, plenums, and other spaces used for environmental air.
- CL2R: Riser cable for use in a vertical run in a floor-to-floor shaft.
- CLEX: Limited use cable for use in dwellings and for use in raceways.
- Installation in Canada: Use only CSA certified, type ELC, (extra low voltage control cable).
- Installation in countries other than Canada and the USA: Use standard low voltage cable in accordance with national and local regulations.

Troubleshooting

Problem and Possible Cause	Solution
The UPS will not turn on or there is no output.	
The unit has not been turned on.	Press the ON key once to turn on the UPS.
The UPS is not connected to utility power.	Be sure the power cable is securely connected to the unit and to the utility power supply.
The input circuit breaker has tripped.	Reduce the load on the UPS. Disconnect nonessential equipment and reset the circuit breaker.
The unit shows very low or no input utility voltage.	Check the utility power supply to the UPS by plugging in a table lamp. If the light is very dim, check the utility voltage.
The battery connector plug is not securely connected.	Be sure that all battery connections are secure.
There is an internal UPS fault.	Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.
The UPS is operating on battery, while connected to input utility power.	
The input circuit breaker has tripped.	Disconnect nonessential equipment and reset the circuit breaker.
There is very high, very low, or distorted input line voltage.	Move the UPS to a different outlet on a different circuit. Test the input voltage with the utility voltage display. If acceptable to the connected equipment, reduce the UPS sensitivity.
UPS is emitting an audible beeping sound.	
The UPS is operating normally.	None. The UPS is protecting the connected equipment.
UPS does not provide expected backup time.	
The UPS battery is weak due to a recent power outage or is near the end of its service life.	Charge the battery. Batteries require recharging after extended outages and wear out faster when put into service often or when operated at elevated temperatures. If the battery is near the end of its service life, consider replacing the battery even if the replace battery LED is not illuminated.
The UPS is experiencing an overload condition.	Check the UPS load display. Unplug unnecessary equipment, such as printers.
Display interface LEDs flash sequentially.	
The UPS has been shut down remotely through software or an optional accessory card.	None. The UPS will restart automatically when utility power is restored.
The Fault LED is illuminated. The UPS displays a fault message and emits a constant beeping sound.	
Internal UPS fault.	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
All LEDs are illuminated and the UPS is plugged into a wall outlet.	
The UPS has shut down and the battery has discharged from an extended outage.	None. The UPS will return to normal operation when the power is restored and the battery has a sufficient charge.

Problem and Possible Cause	Solution
The replace battery LED is illuminated.	
The battery has a weak charge.	Allow the battery to recharge for at least four hours. Then, perform a self-test. If the problem persists after recharging, replace the battery.
The replacement battery is not properly connected.	Be sure the battery connector is securely connected.
The display interface has a Site Wiring Fault message.	
Wiring faults detected include missing ground, hot neutral, polarity reversal, and overloaded neutral circuit.	If the UPS indicates a site wiring fault, have a qualified electrician inspect the building wiring. (Applicable for 120 V units only.)

Transport

1. Shut down and disconnect all connected equipment.
2. Disconnect the unit from utility power.
3. Disconnect all internal and external batteries (if applicable).
4. Follow the shipping instructions outlined in the *Service* section of this manual.

Service

If the unit requires service, do not return it to the dealer. Follow these steps:

1. Review the *Troubleshooting* section of the manual to eliminate common problems.
2. If the problem persists, contact APC by Schneider Electric Customer Support through the APC by Schneider Electric web site, **www.apc.com**.
   a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD display on select models.
   b. Call Customer Support and a technician will attempt to solve the problem over the phone. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
   c. If the unit is under warranty, the repairs are free.
   d. Service procedures and returns may vary internationally. Refer to the APC by Schneider Electric web site, **www.apc.com** for country specific instructions.
3. Pack the unit properly to avoid damage in transit. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.
   a. **Note: When shipping within the United States, or to the United States always DISCONNECT ONE UPS BATTERY before shipping in compliance with U.S. Department of Transportation (DOT) and IATA regulations.** The internal batteries may remain in the UPS.
   b. Batteries may remain connected in the XBP during shipment. Not all units utilize XLBPs.
4. Write the RMA# provided by Customer Support on the outside of the package.
5. Return the unit by insured, prepaid carrier to the address provided by Customer Support.

LIMITED FACTORY WARRANTY

Schneider Electric IT Corporation (SEIT), warrants its products to be free from defects in materials and workmanship for a period of two (2) years from the date of purchase. The SEIT obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. Repair or replacement of a defective product or parts thereof does not extend the original warranty period.

This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase. Products may be registered online at warranty.apc.com.

SEIT shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user or any third person misuse, negligence, improper installation, testing, operation or use of the product contrary to SEIT recommendations or specifications. Further, SEIT shall not be liable for defects resulting from: 1) unauthorized attempts to repair or modify the product, 2) incorrect or inadequate electrical voltage or connection, 3) inappropriate on site operation conditions, 4) Acts of God, 5) exposure to the elements, or 6) theft. In no event shall SEIT have any liability under this warranty for any product where the serial number has been altered, defaced, or removed.

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NOTHING IN THIS LIMITED WARRANTY SHALL SEEK TO EXCLUDE OR LIMIT SEIT LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM ITS NEGLIGENCE OR ITS FRAUDULENT MISREPRESENTATION OF TO THE EXTENT THAT IT CANNOT BE EXCLUDED OR LIMITED BY APPLICABLE LAW.

To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Customers with warranty claims issues may access the SEIT worldwide customer support network through the APC web site: www.apc.com. Select your country from the country selection drop down menu. Open the Support tab at the top of the web page to obtain information for customer support in your region. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase.

APC by Schneider Electric
Worldwide Customer Support

Customer support for this or any other APC by Schneider Electric product is available at no charge in any of the following ways:

- Visit the APC by Schneider Electric web site, www.apc.com to access documents in the APC Knowledge Base and to submit customer support requests.
  - **www.apc.com** (Corporate Headquarters)
    Connect to localized APC by Schneider Electric web site for specific countries, each of which provides customer support information.
  - **www.apc.com/support/**
    Global support searching APC Knowledge Base and using e-support.
- Contact the APC by Schneider Electric Customer Support Center by telephone or e-mail.
  - Local, country specific centers: go to **www.apc.com/support/contact** for contact information.
  - For information on how to obtain local customer support, contact the APC by Schneider Electric representative or other distributor from whom you purchased your APC by Schneider Electric product.

Select models are ENERGY STAR® qualified.
For more information go to www.apc.com/site/recycle/index.cfm/energy-efficiency/energy-star/

EN 990-3858C **10/2014**

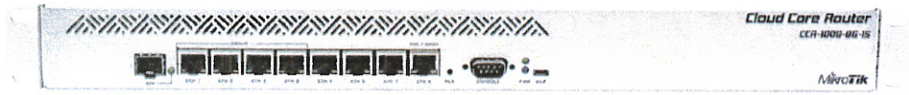
Cloud Core Router

CCR1009

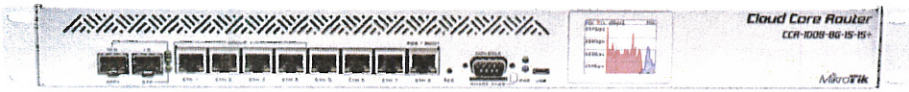
The CCR1009 is a powerful Ethernet router based on the cutting edge TILERA 9 core CPU.

Two models are available:

- low-cost model CCR1009-8G-1S with with 1GB of RAM, eight Gigabit Ethernet ports, and one SFP cage (SFP module not included).
- full feature model CCR1009-8G-1S-1S+ with 2GB of RAM, eight Gigabit Ethernet ports, one SFP port and one SFP+ port with 10G support (SFP module not included). CCR1009-8G-1S-1S+ model also have dual power supplies built in for redundancy (if one power line fails, the other one will take over automatically). Also, CCR1009-8G-1S-1S+ supports a Smart card, to store your private key for use in all features that support Certificate based authentication.



CCR-1009-8G-1S



CCR-1009-8G-1S-1S+

IEC Cord

USB cable

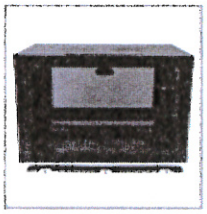
Rackmount ears

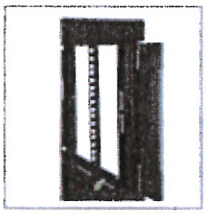
Model	CCR1009-8G-1S	CCR1009-8G-1S-1S+
CPU	Tilera TILE-Gx8009 CPU (9-cores, 1.2Ghz per core)	
Memory	RAM: 1GB DDR3 800 MHz	RAM: 2GB DDR3 800 MHz
Network interfaces	Eight 10/100/1000 Mbit/s Gigabit Ethernet with Auto-MDI/X	
SFP	1x SFP cage	1x SFP cage, 1x SFP+ cage
Expansion	microUSB port	microUSB port, SmartCard slot, MicroSD slot
Storage	128MB Onboard NAND	
Serial port	One DB9 RS232C asynchronous serial port	
Extras	Reset switch; beeper; voltage, current and temperature monitoring; speed controlled fan	Reset switch; beeper; voltage, current and temperature monitoring; speed controlled fan, LCD
Power options	1x IEC C14 power jack AC 110/220V, PoE in 12-58V, 802.3af/at compliant	2x IEC C14 power jacks AC 110/220V, PoE in 12-58V, 802.3af/at compliant
Max power consumption	34W (with loaded SFP)	35W (with loaded SFP)
Unit dimensions	444x175x47mm	
Temperature	-20C .. +60C	
OS	MikroTik RouterOS v6 (64bit), Level 6 license	
Included	router in a 1U case, IEC power cable, USB cable, rackmount ears	router in a 1U case with LCD, 2x IEC power cables, USB cable, rackmount ears

Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripplite.com

SmartRack 6U Low-Profile Switch-Depth Wall-Mount Rack Enclosure Cabinet

MODEL NUMBER: **SRW6U**




Highlights

- Maximum load capacity of 200 lb.
- Locking steel cabinet vented at sides, front, top and bottom
- Flow-through ventilation keeps equipment cool
- Secures 6U of 19 in. rack equipment up to 16.5 in. deep
- Mounts to wall or rolls on floor (with optional SRCASTER)

Package Includes

- SRW6U SmartRack 6U Low-Profile Switch-Depth Wall-Mount Rack Enclosure Cabinet
- (12) M6 screws
- (12) M6 cage nuts
- (12) M6 cup washers
- (12) 12-24 screws
- Removable mounting plate
- (3) Mounting plate screws
- (2) Keys
- Owner's manual

Description

The SRW6U SmartRack 6U Low-Profile Switch-Depth Wall-Mount Rack Enclosure Cabinet is designed to house EIA-standard 19-inch rack equipment in network wiring closets, retail locations, classrooms, back offices and other areas with limited floor space where you need equipment to be secure, organized and out of the way. Constructed from heavy-duty steel with a durable black powder-coated finish, the cabinet has a maximum load capacity of 200 pounds.

The side panels and front door lock securely to help prevent damage, tampering or theft. The front, top, bottom and removable side panels are vented, which allows air to flow freely and keep equipment cool. The reversible front door can open left or right by rotating the cabinet 180° before mounting. Convenient top and bottom ports allow easy cable routing.

The SRW6U comes fully assembled and ready to mount to the wall, or use Tripp Lite's optional SRCASTER rolling caster kit to make it a mobile rack. Square and 12-24 threaded mounting holes and numbered rack spaces make equipment installation easy. The vertical mounting rails adjust in 7/8-inch increments to accommodate equipment up to 16.5 inches deep, such as network switches and patch panels.

Features

Saves Valuable Workspace

- Perfect for network wiring closets, retail locations, classrooms, back offices and other areas with limited floor space where you need equipment to be secure, organized and out of the way
- Houses EIA-standard 19 in. rack equipment in 6U of space
- Maximum load capacity of 200 lb.

ps Important Equipment Secure

- Side panels and front door lock securely to help prevent damage, tampering or theft
- Vented panels allow generous airflow that keeps equipment cool
- Rotate cabinet 180° before mounting to open reversible front door left or right

- Convenient ports with removable covers allow cable routing through top and bottom

Easy Enclosure and Equipment Installation

- Ships fully assembled for quick installation
- Mounts to wall or rolls on floor with Tripp Lite's optional SRCASTER caster kit
- Wall-mounting holes spaced 16 in. apart for standard wall stud placement
- Vertical mounting rails adjust in 7/8 in. increments to accommodate equipment up to 16.5 in. deep, such as network switches and patch panels
- Rails support square-hole or 12-24 threaded-hole mounting
- Rack spaces numbered for easy reference

Meets Payment Card Industry Standards

- Provides physical equipment and media security required for PCI DSS (Payment Card Industry Data Security Standard) compliance

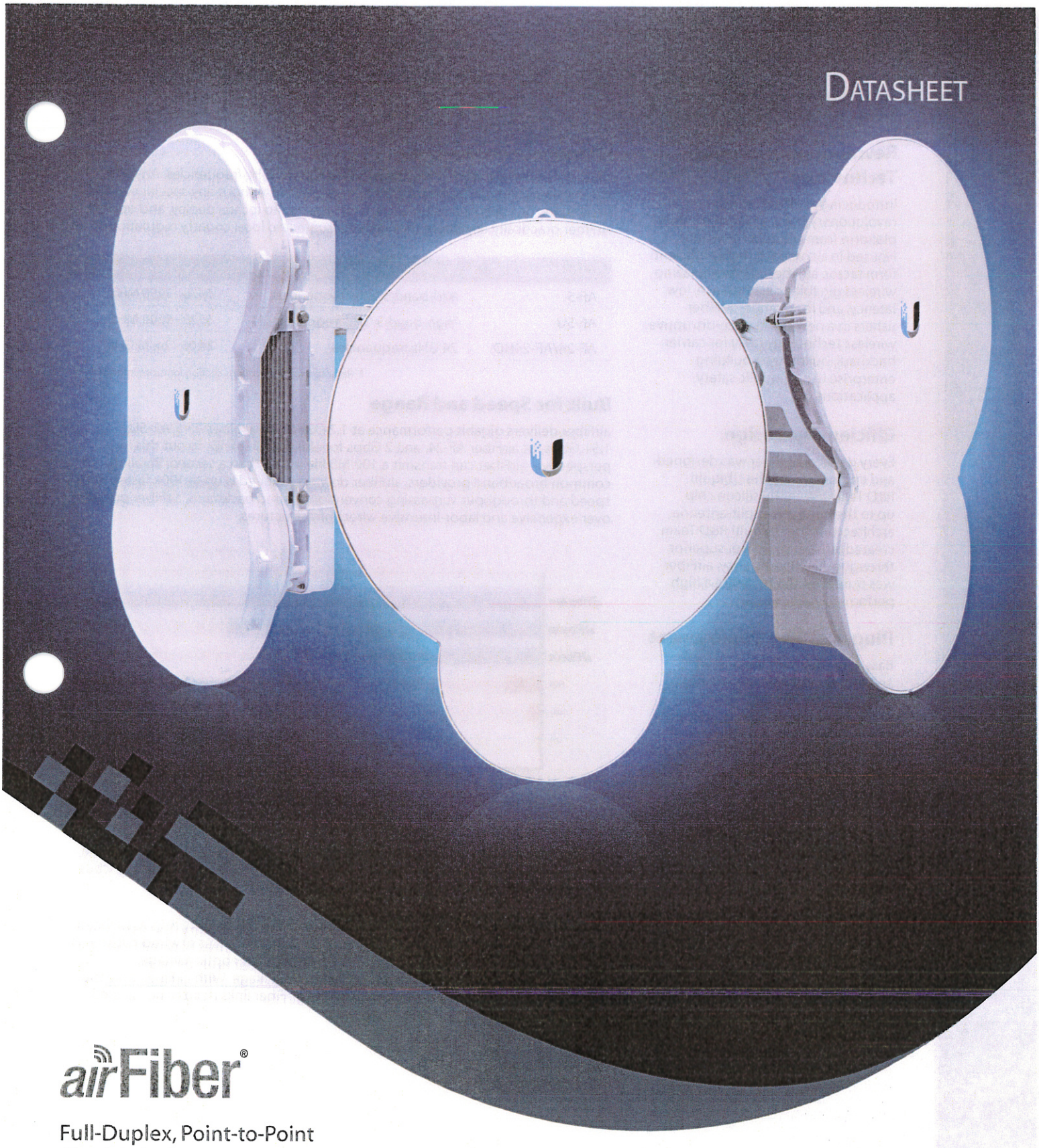
Specifications

PHYSICAL	
Rack Height (U Spaces)	6
Maximum Device Depth (in.)	16.5
Maximum Device Depth (cm)	41.91
Minimum Device Depth (in.)	3
Minimum Device Depth (cm)	7.62
Shipping Dimensions (hwd / in.)	17.5" x 26.5" x 20.5"
Shipping Dimensions (hwd / cm)	44.45 x 67.31 x 52.07
Shipping Weight (lbs.)	32
Shipping Weight (kg)	14.5
Unit Dimensions (hwd / in.)	14.5 x 23.63 x 17.5
Unit Dimensions (hwd / cm)	36.83 x 60 x 44.45
Unit Weight (lbs.)	29
Unit Weight (kg)	13.15
Color	Black
Weight Capacity - Stationary (lbs.)	200
Weight Capacity - Stationary (kg)	91
Cable Access Hole Measurement (inches)	9.812 x 2.35 (l x w)
Maximum Device Depth (mm)	419
Minimum Device Depth (mm)	76
SPECIAL FEATURES	

Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripplite.com

Grounding Lug	Front and Back door frames
CERTIFICATIONS	
Certifications	UL/CSA 60950-1, EIA-310-E
Approvals	RoHS
WARRANTY	
Product Warranty Period (Worldwide)	5-year limited warranty

DATASHEET



airFiber®

Full-Duplex, Point-to-Point Gigabit Radio

Models: AF-24, AF-24HD, AF-5, AF-5U

High Performance Wireless Backhaul

Extreme, Long-Range Links

Worldwide License-Free Operation

EXHIBIT

G

UBIQUITI® NETWORKS

airFiber®

Revolutionary Wireless Technology

Introducing airFiber®, a truly revolutionary Point-to-Point wireless platform from Ubiquiti Networks. Housed in a compact, highly efficient form factor, airFiber delivers amazing wireless gigabit+ performance, low latency, and long range. airFiber ushers in a new era in price-disruptive wireless technology ideal for carrier backhaul, building-to-building enterprise use, or public safety applications.

Efficient by Design

Every detail of airFiber was designed and engineered by the Ubiquiti R&D Team. From the silicon chip up to the innovative split-antenna architecture, the Ubiquiti R&D Team created airFiber to deliver superior throughput with efficiency. airFiber was purpose-built to create a high performance backhaul.

Plug and Play Deployment

Based on Ubiquiti's innovative and intuitive airOS®, the airFiber Configuration Interface enables quick deployment. With installation efficiency in mind, the mechanical design allows easy installation by one person. A two-person installation crew can effectively install and align an airFiber link.

To fine-tune the alignment, the received signal levels can be conveniently accessed via any of these methods:

- airFiber LED display
- airFiber Configuration Interface
- Audio tone feature

Designed for Freedom

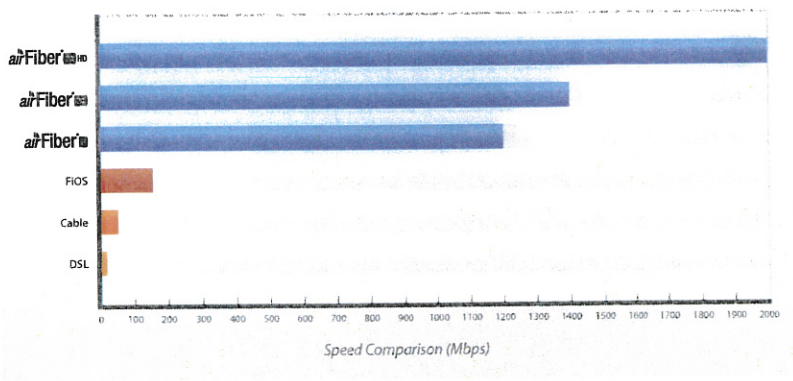
airFiber operates in worldwide, **license-free**, 24 or 5 GHz frequencies. Anyone around the world can purchase and operate airFiber without any special permits, paperwork, or added licensing costs. Users are free to locate, deploy, and operate airFiber practically anywhere they choose (subject to local country regulations).

Model	Description	Operating Frequency*
AF-5	Mid-band 5 GHz frequencies	5470 - 5950 MHz
AF-5U	High-band 5 GHz frequencies	5725 - 6200 MHz
AF-24/AF-24HD	24 GHz frequencies	24.05 - 24.25 GHz

* Refer to the *Specifications* section for more information.

Built for Speed and Range

airFiber delivers gigabit performance at 1.2+ Gbps for airFiber AF-5/AF-5U, 1.5+ Gbps for airFiber AF-24, and 2 Gbps for airFiber AF-24HD. To put this in perspective, airFiber can transmit a 100 MB file in less than a second. Rivaling common broadband providers, airFiber download speed is up to 100x faster. With speed and throughput surpassing conventional wired backhauls, airFiber prevails over expensive and labor-intensive wired infrastructures.



airFiber is built for long-range use: up to 13+ km for airFiber AF-24, up to 20+ km for airFiber AF-24HD, and up to 100+ km for airFiber AF-5/AF-5U, which launches the innovative xtreme Range Technology (xRT™) feature.

airFiber backhauls do not share the security risks associated with wired backhauls. The long distances of wired backhauls are vulnerable to copper theft, fiber optic damage, vandalism, and accidental breakage. With airFiber, only the installation points of the airFiber links need to be secured.