DATA SHEET

RUCKUS® Fiber Backpack Gen 4

Benefits

- Provides fiber backhaul option for RUCKUS H350 and H550 APs.
- Converts the AP Gigabit Ethernet uplink port to fiber via an SFP transceiver
- Supports a range of transceivers including PON and Fiber Ethernet 1GbE SFPs
- Provides power to AP by converting DC input power to PoE out. Single power source for both the AP and the ONT backpack
- Attaches securely to the back of the H350/H550 AP between the AP and the wall outlet.
- The fiber backpack can also be mounted side by side with any AP with the use of an available front cover

Fiber Backpack for H350/H550

To meet their ever-increasing connectivity needs, more hotels and Multi Dwelling Units (MDU) operators are looking into and deploying Fiber to the Room (FTTR) technology. Instead of running twisted pair cables and coaxial cables to each room, a FTTR deployment runs a single fiber cable to deliver triple-play services to the hotel room.

There are many advantages hotel and MDU operators can expect from FTTR deployments:

- High Performance: Fiber can easily accommodate guests and staff connectivity needs and support multiple devices per guest and popular streaming services without causing network strain.
- Future proofing: Fiber's seemingly unlimited bandwidth is ready to support future generations of Ethernet and PON speed upgrades.
- Extended Range: Depending on the type of fiber and modulation, fiber links can extend over multiple kilometers compared to the more limited range of copper cables
- Space savings: Fewer cable runs mean smaller conduit, smaller cable trays and less need for telecom closets on each floor.

Fiber to the room deployments require an Optical Network Terminal (ONT) device to connect wireless access points (APs) to fiber media. In most cases that means deploying an additional device in the guest room. installing an ONT along with an AP leads to wire clutter, device power, safety and other challenges, which can impact room aesthetics. In addition, most ONTs today are fiber type specific and don't support interchangeable SFP transceivers.

The RUCKUS Fiber Backpack is a field installable, Fiber-to-Ethernet Media Converter accessory providing customers with a fiber Optic Network Terminal (ONT) backhaul interface for the H350 and H550 wall-plate APs. It simplifies Wi-Fi deployments for fiber-ready hotels/ MDUs. The fiber backpack is designed to integrate with the H350 and H550 APs, and can also be used as a stand alone media converter with the use of an optional front cover. It support both PON and Fiber Ethernet 1GbE SFP modules. It also provides PoE to power the attached H350 or H550 AP.

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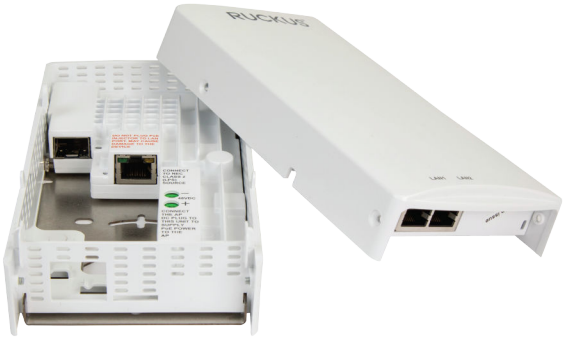

Figure 1: Fiber backpack showed with the RUCKUS H350 wall mounted access point

Figure 2: Fiber backpack showed mounted behind the RUCKUS H350 wall mounted access point

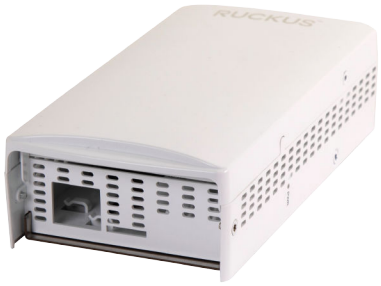

Figure 3: Fiber backpack showed with optional front cover

Figure 4: Fiber backpack showed with the RUCKUS H350 wall mounted access point

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SPECIFICATIONS

PHYSICAL CHARACTERISTICS	
Power Supply	• External 48V DC Power Supply (902-2170-XXXX for H550; 902-0170-XXXX for H350) • DC Terminal Block - DC Input Voltage Range: 42.5V to 57V - Wire Gauge: 12 to 22 (AWG)
Physical Size	• 8.95 x 17.66 x 3.90 cm (without cover) • 8.95 x 17.92 x 4.73 cm (with cover)
Weight	• 0.256 Kg (0.564 lb) with mounting bracket
Ethernet Ports	• 1Gbps port
Fiber	• SFP, 1Gbps
Environmental Conditions	• Operating Temperature range: 0 to 40C • Humidity: Up to 95% non-condensing
Mounting Options	• Mounts on the wall or on standard outlet (mounting bracket included)

POWER	
Max. Power Consumption	• 1 W (max) without SFP module • Up to 4 W (max) with SFP installed
PoE out	• IEEE 802.3at up to 30W output

Management and Monitoring Capabilities	
PON	• IEEE 802.3ah-2005 compliance
1000Base-LX	• IEEE 802.3ah-2005 compliance • TS-1000 compliance

Certifications	
Standards Compliance	• EN 55032 Level 2/3 EMC • EN 55035 EMC • EN 50121-1 Railway EMC • EN 50121-4 Railway Immunity • EN 60601-1-2 Medical • IEC 60950-1 & IEC 62368-1 Safety • IEC 61373 Shock & Vibration • EN 50155 Transportation • ISTA 2A Transportation
Hazardous Materials	• RoHS
Recycle Design	• WEEE

Tested SFP Modules	
E1MG-LX-OM	• 1000BASE-LX SFP optic, SMF, LC connector, optical monitoring capable
E1MG-SX-OM	• 1000BASE-SX SFP optic, MMF, LC connector, optical monitoring capable
E1MG-LHA-OM-T	• 1000Base-LHA SFP optic
E1MG-BXD-TA / E1MG-BXU-TA	• 1000BASE-BXD SFP optic, SMF, SING LC connector, optical monitoring capable
902-0202-0000	• EPON Optical Network Terminal, SFP Optic Module, 20km reach, single mode, SC/UPC,-40 to 85C, Includes SC/UPC ber patch cable
GPON LD500-10B Furukawa	• Mini GBIC PON SFP, converts the optical signal from the GPON network ITU-T standard G.984) to an electrical signal (10/100/1000Base-T Ethernet standard) and vice versa.

PRODUCT ORDERING INFORMATION

Model	Description
P01-0600-0000	• Fiber Backpack adds PON and Fiber Ethernet backhaul support to H550 and H350. Can be co-installed with H550, H350, or be used as a standalone unit. Includes short ethernet cable for PoE output and mounting bracket. Doesn't include SFP optical module or DC power supply. DC power supply is required and should be purchased separately (902-2170-XXXX for H550; 902-0170-XXXX for H350). Ships with its own mounting bracket

ACCESSORIES

OPTIONAL ACCESSORIES	
RUCKUS NBASE-X SFP MODULES	
902-0202-0000	• EPON Optical Network Terminal, SFP Optic Module, 20km reach, single mode, SC/UPC,-40 to 85C, Includes SC/UPC ber patch cable
E1MG-LX-OM	• 1000Base-LX SFP optic, SMF, LC connector, Optical Monitoring Capable
E1MG-SX-OM	• 1000Base-SX SFP optic, MMF, LC connector, Optical Monitoring Capable
E1MG-BXD-TA / E1MG-BXU-TA	• 1000BASE-BXD SFP optic, SMF, Single LC connector, optical monitoring capable
E1MG-LHA-OM-T	• 1000BASE-LHA SFP optic SMF, LC connector,
POWER SUPPLY	
902-2170-XXYY	• H550 Power Supply (48V, 1.04A, 50W) (Sold in quantities of 1 or 10)
902-0170-XXYY	• H350 Power Supply (48V, 0.63A, 30.24W) (Sold in quantities of 1 or 10)
BACKPACK ACCESSORIES	
902-0601-0000	• Plastic front cover for standalone installation. This accessory is to be used to cover over the cables and the internal cavity of the Fiber Backpack. Sold as bulk pack x25 units per box

PLEASE NOTE: When ordering PoE injectors or power supplies, you must specify the destination region by indicating -US, -EU, -AU, -BR, -CN, -IN, -JP, -KR, -SA, -UK, or -UN instead of -XX. YY specifies the quanity: 00 = 1 unit, 01 = 10 units.

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CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com

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