

E6000r™ High Density Remote PHY Shelf

Eight Remote PHY Devices (RPDs) in a 1 RU shelf form factor

FEATURES

- Provides 8 x E6000n HD RPDs, managed via the CCAP Core
- 24 x F-connectors offering a total of 8 Downstream service groups (DS-SG) up to 1.2 GHz and 16 Upstream service groups (US-SG) up to 204 MHz
- Full spectrum DOCSIS® 3.0 and DOCSIS 3.1
- Increased RPD density designed for Data Center deployments

Remote PHY (R-PHY) is a key component in CommScope's Distributed Access Architecture (DAA) portfolio, which can provide significant operational benefits including increased bandwidth capacity, improved fiber efficiencies (wavelengths and distance), simplified plant operations with digital optics, and decreased loads on facility space and power systems.

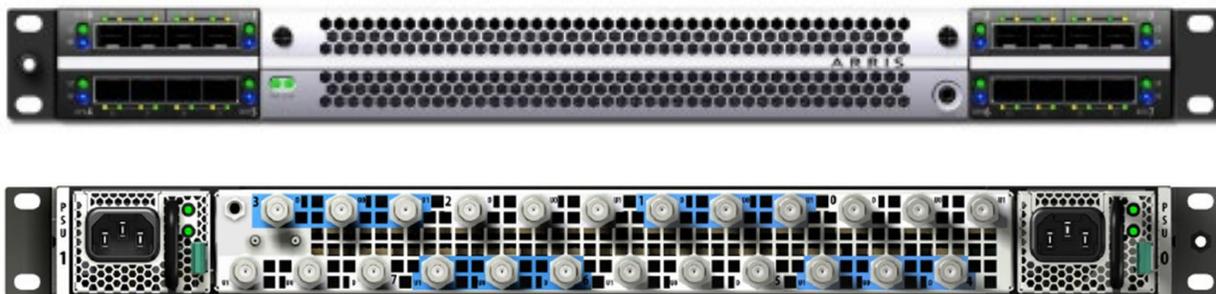
The CommScope High Density (HD) R-PHY Shelf enables MSOs to deploy digital fiber closer to end subscribers while making the change easier for existing HFC networks, alleviating the need to modify fiber nodes as it works with nodes from any vendor.

An E6000r HD R-PHY Shelf is a 19" rack mount unit which can host eight E6000n HD Remote PHY Devices (RPDs). RPDs work in conjunction with the CCAP Core to extend the PHY layer from the CCAP further into the network, closer to the customer. MAC processing, provisioning, and monitoring functions remain in the headend. The RPD provides full spectrum support for digital broadcast TV, VoD, and DOCSIS 3.0 and DOCSIS 3.1, as well as strategic alignment with future NFV/SDN/FTTx systems.

E6000r HD R-PHY Shelf Use Cases

- Headends and hub sites, especially where power, space, and cooling is a challenge
- Replacement of legacy CMTS infrastructure, overcoming channel density limitations and adding DOCSIS 3.1 capability
- Adding local serving group capability to pure MAC Core products





SPECIFICATIONS

Characteristics	Specification
Connectivity	
Back Connections	RF, Power
Front Connections	SFP+
RF Connectors	F-type
Console	
Console Port	3.5 mm
Direct CLI Access	To each RPD
8 RPD Configuration	
Downstream Service Groups	8
Upstream Service Groups	16
Service Group Configurations	
Downstream x Upstream	1x1 and 1x2
Downstream Service Group (DS-SG)	
	Up to 3 OFDM DS @ 192 MHz Up to 128 Annex B or 96 Annex A SC QAM CCAP DRFI specification compliant power levels Frequency Range 54 to 1218 MHz
Upstream Service Group (US-SG)	
	Up to 12x SC-QAM Up to 2x 96 MHz OFDMA Frequency Range 5 to 204 MHz
Video Support	
	Broadcast, VOD, and SDV
CIN Connectivity	
	2 x 10G SFP+ per RPD Daisy Chaining Path Redundancy
Fans	
	N+1 hot swappable fans
Physical	
Width	19 in (48.3 cm)
Height	1RU (1.75 in, 44.5 mm)
Depth	20.75 in (52.7 cm)
Weight	27.1 lbs (12.3 kg)
Power	
Dual Redundant and Load Sharing	AC (110V/220V) or DC (-48V)
Power Consumption at 25°C (max)	8 RPD ~ 400W
Power Consumption at 50°C (max)	8 RPD ~ 480W
Environmental	
Operating Temperature Range	-0° to 50°C (32° to 122°F)
Operating Humidity	5% to 85% non-condensing

ORDERING INFORMATION

Part Number	Description
1001330	E6000r High Density Remote PHY Shelf - 8 RPDs (1x2), AC PSUs
1001332	E6000r High Density Remote PHY Shelf - 8 RPDs (1x2), DC PSUs
1001334	AC Power Cord, C13, V-LOCK, N. America
1001335	AC Power Cord, C13, V-LOCK, UK
1001336	AC Power Cord, C13, V-LOCK, Swiss
1001337	AC Power Cord, C13, V-LOCK, Argentina
1001338	AC Power Cord, C13, V-LOCK, Brazil
1001339	AC Power Cord, C13, V-LOCK, China
1001340	AC Power Cord, C13, V-LOCK, AUS/NZ
1001341	AC Power Cord, C13, V-LOCK, Europe
1001342	AC Power Cord, C13, V-LOCK, Japan
1001471	HD R-PHY Shelf Power Cables for -48 V DC, 10 feet
1001472	HD R-PHY Shelf Power Cables for -48 V DC, 50 feet
1001473	HD R-PHY Shelf Power Cables for -48 V DC, 100 feet
1001466	AC PSU HD R-PHY Shelf (spare)
1001467	DC PSU HD R-PHY Shelf (spare)
1001468	Fan HD R-PHY Shelf (spare)
1001469	Rack Mount Kit HD R-PHY Shelf (spare)
1001470	Fan Filter Kit HD R-PHY Shelf (spare)

Contact Customer Care for product information and sales:

- United States: 888-944-4357
- International: +1-215-323-2345

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Note: Specifications are subject to change without notice.

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