ARRIS

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 1.2GHz and 16 Upstream service groups (US-SG) up to 204MHz

• Full spectrum DOCSIS® 3.0/3.1

• Increased RPD density designed for Data Center deployments

PRODUCT OVERVIEW

Remote PHY is a key component in ARRIS'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 ARRIS HD Remote 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 High Density Remote PHY Shelf is a 19" rack mount unit which can hosts eight E6000n High Density 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

• Head-ends 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

ARRIS®

GENERAL SPECIFICATIONS

Connectivity	
Back connections for RF, Power. Front connections for SFP+	
RF Connectors: F-type	
Console	
3.5mm Console Port	
Direct CLI access to each RPD	
8 RPD Configuration	
8 Downstream Service Groups	
16 Upstream Service Groups	
Service Group Configurations	
1x1 and 1x2 (Downstream x Upstream)	
Downstream Service Group (DS-SG)	
Up to 5 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 96MHz OFDMA	
Frequency Range 5 to 204 MHz	

GENERAL SPECIFICATIONS (CONTINUED)

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 (maximum)	8 RPD ~ 400W
Power Consumption at 50°C (maximum)	8 RPD < 520W
Environmental	
Operating Temperature	-0 °C to 50 °C (32 °F 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)

CUSTOMER CARE

Contact Customer Care for product information and sales:

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