

E6000r[™] Remote PHY Shelf

2RU shelf holding up to three Remote PHY Devices (RPDs)

FEATURES

- Hosts up to 3 x E6000n Shelf RPD modules, managed via the CCAP Core
- 9 x F connectors providing a total of 3 Downstream service groups (DS-SG) up to 1.2GHz and 6 Upstream service groups (US-SG) up to 204MHz
- Full spectrum DOCSIS® 3.0/3.1
- Extended temperature and humidity specification suitable for non-environmentally-controlled outdoor cabinets

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 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 Remote PHY Shelf is a 19" rack mount unit which can host up to three E6000n 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 R-PHY Shelf Use Cases

- Outdoor street cabinets, in non-environmentally-controlled conditions
- Smaller hub sites, especially where power is a challenge
- Replacement of legacy CMTS infrastructure, overcoming channel limitations and adding DOCSIS[®] 3.1 capability
- In buildings, such as Multi-Dwelling Units (MDUs) and offices, particularly newer ones that have fiber connectivity





GENERAL SPECIFICATIONS	GENERAL SPECIFICATIONS (CONTINUED)	
Connectivity	Video Support	
Front connections for RF, SFP+, Power	Broadcast, VOD and SDV	
RF Connectors: F-type	CIN Connectivity	
3 RPD Configuration	1 x 10G SFP+ per RPD (2 x 10G SFP+ via future software upgrade)	
3 Downstream Service Groups	Path Redundancy (via future software upgrade)	
6 Upstream Service Groups	Daisy Chaining (via future software upgrade)	
2 RPD Configuration	Fans	
2 Downstream Service Groups	N+1 hot swappable fans	
4 Upstream Service Groups	Physical	
1 RPD Configuration	Width 19 in (48.3 cm)	
1 Downstream Service Group	Height 2RU (3.5 in, 8.9 cm)	
2 Upstream Service Groups	Depth 10.4 in (26.5 cm)	
Service Group Configurations	Weight (without RPDs)23.1 lbs (10.5 kg)	
1x1 and 1x2 (Downstream x Upstream)	Power	
Downstream Service Group Capacity (DS-SG)	Dual redundant and load sharing AC (110V/220V) or DC (-48V)	
Up to 5 OFDM DS @ 192 MHz	Environmental	
Up to 128 Annex B or 96 Annex A SC-QAM	Operating Temperature -20 °C to 65 °C (-4 °F to 149 °F)	
CCAP DRFI specification compliant power levels	Operating Humidity 5% to 95% non-condensing	
Upstream Service Group Capacity (US-SG)		
Up to 12x SC-QAM		

Up to 2x 96MHz OFDMA

1 x 10G SFP+ per RPD (2 x 10G	SFP+ via future software upgrade)
Path Redundancy (via future so	oftware upgrade)
Daisy Chaining (via future softw	ware upgrade)
Fans	
N+1 hot swappable fans	
hysical	
Width	19 in (48.3 cm)
Height	2RU (3.5 in, 8.9 cm)
Depth	10.4 in (26.5 cm)
Weight (without RPDs)	23.1 lbs (10.5 kg)
Power	
Dual redundant and load sharii	ng AC (110V/220V) or DC (-48V)
Environmental	
Operating Temperature	-20 °C to 65 °C (-4 °F to 149 °F)
Operating Humidity	5% to 95% non-condensing

CUSTOMER CARE

Contact Customer Care for product information and sales:

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