E6000R-HD-R-PHY-SHELF | E6000r High Density Remote PHY Shelf

1RU Remote PHY Shelf with eight Remote PHY Devices (RPDs)

- Hosts 8 x E6000n HD Shelf RPD modules, managed via the CCAP Core
- 2 x SFP+ cages per RPD for NSI connectivity
- 24 x F connectors providing a total of 8 Downstream service groups (DS-SG) and 16 Upstream service groups (US-SG)
- Full spectrum DOCSIS® 3.0/3.1, up to 1.2GHz in DS and up to 204MHz in US

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 E6000r High-Density 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. As a head-end/data center based solution, it can be deployed fast and it enables operators to achieve greater service group density.

An E6000r HD Remote PHY Shelf is a 1 RU, 19" rack mount unit which hosts 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/FTTxsystems.

E6000r HD R-PHY Shelf use cases
Head-ends and hub sites, especially where power, space, and cooling are a challenge.
Replacement of legacy CMTS infrastructure, overcoming channel limitations and adding DOCSIS® 3.1 capabilities.
Adding local serving group capability to pure MAC Core products, such as E6000 Core or vCore.

Product Classification

Regional Availability	Asia | Australia/New Zealand | EMEA | Latin America | North America
Product Type	Remote PHY device (RPD)

General Specifications

Converged Interconnect Network (CIN) Connectivity	2 x 10 G SFP+ per RPD | Daisy Chaining | Path Redundancy
Cooling	N+1 Hot Swappable Fans
Front Connection Types	SFP+
Rack Units	1
RF Connector Interface	'F' type connector
RPDs Hosted, quantity, maximum	8
Video Type	Broadcast | SDV | VOD

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Dimensions

Height	44.5 mm | 1.752 in
Width	483 mm | 19.016 in
Depth	527 mm | 20.748 in

Environmental Specifications

Operating Temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Humidity	5%–85%