# E6000R-R-PHY-SHELF | E6000r Remote PHY Shelf

**2RU environmentally Hardened Remote PHY (R-PHY) Shelf holding up to three Remote PHY Devices (RPDs)**

- 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

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 fiberefficiencies (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/FTTxsystems.

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

## Product Classification

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

## General Specifications

| | |
|---|---|
| **Configuration, 1 Remote PHY Device** | 1 Downstream service group | 2 Upstream service groups |
| **Configuration, 2 Remote PHY Devices** | 2 Downstream service groups | 4 Upstream service groups |
| **Configuration, 3 Remote PHY Devices** | 3 Downstream service groups | 6 Upstream service groups |
| **Converged Interconnect Network (CIN) Connectivity** | 2 x 10 G SFP+ | Daisy Chaining | Path Redundancy |
| **Cooling** | Hot swappable fan |
| **Front Connection Types** | Power | RF | SFP+ |
| **Rack Units** | 2 |

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|---|---|
| **RF Connector Interface** | 'F' type connector |
| **RPDs Hosted, quantity, maximum** | 3 |
| **Video Type** | Broadcast | SDV | VOD |

## Dimensions

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|---|---|
| **Height** | 88.9 mm | 3.5 in |
| **Width** | 482.6 mm | 19 in |
| **Depth** | 264.16 mm | 10.4 in |

## Electrical Specifications

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|---|---|
| **Power Consumption at Temperature** | 90 W @ 25 °C (1 RPD), 140 W @ 25 °C (2 RPD), 200 W @ 25 °C (3 RPD), 120 W @ 65 °C (1 RPD), 180 W @ 65 °C (2 RPD), 240 W @ 65 °C (3 RPD) |

## Environmental Specifications

| | |
|---|---|
| **Operating Temperature** | -20 °C to +65 °C (-4 °F to +149 °F) |
| **Operating Humidity** | 5%–95% |

## Packaging and Weights

| | |
|---|---|
| **Weight, without RPDs** | 10.478 kg | 23.1 lb |

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