

COMMSCOPE E6000r

REMOTE PHY SHELF



The COMMSCOPE 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.

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

SPECIFICATIONS

CONNECTIVITY	
Front connections for RF, SFP+, Power	
RF Connectors: F-Type	
3 RPD CONFIGURATION	
3 Downstream Service Groups	
6 Upstream Service Groups	
2 RPD CONFIGURATION	
2 Downstream Service Groups	
4 Upstream Service Groups	
1 RPD CONFIGURATION	
1 Downstream Service Group	
2 Upstream Service Groups	
SERVICE GROUP CONFIGURATIONS	
1x1 and 1x2 (Downstream x Upstream)	
DOWNSTREAM SERVICE GROUP CAPACITY (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	
UPSTREAM SERVICE GROUP CAPACITY (US-SG)	
Up to 12x SC-QAM	
Up to 2x 96MHz OFDMA	
VIDEO SUPPORT	
Broadcast, VOD and SDV	
CIN CONNECTIVITY	
1 x 10G SFP+ per RD (2 x 10G SFP+ via future software upgrade)	
Path Redundancy (via future software upgrade)	
Daisy Chaining (via future software upgrade)	
FANS	
N+1 hot swappable fans	
PHYSICAL	
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 sharing	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