

# ORP42x2-1G8

Remote PHY nodes  
for DAA networks

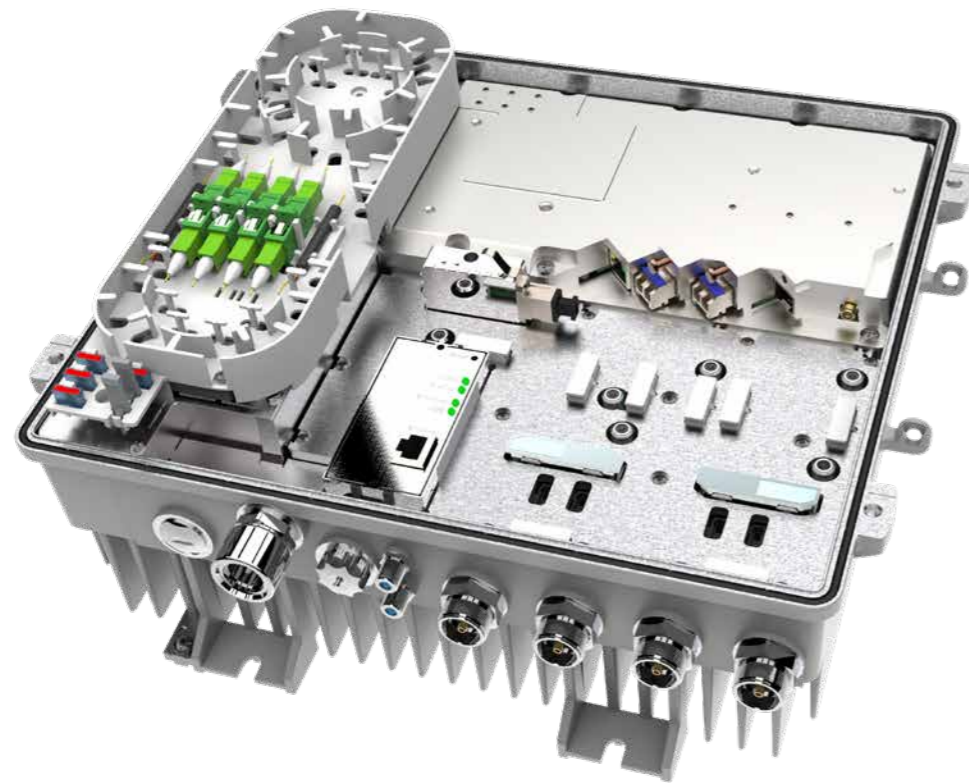


# ORP42x2-1G8

## Remote PHY node

Remote PHY nodes enable the evolution of Hybrid Fiber Coax (HFC) networks to Distributed Access Architecture (DAA) networks. The Remote PHY module conforms to CableLabs specifications and enables digital transmission over the optical Converged Interconnect Network (CIN). By supporting RF overlay modules, the remote PHY nodes enable the transport of analog broadcast, digital TV and DOCSIS signals over the network.

The **ORx42x2-1G8 Remote PHY node** is an extremely linear modular fiber node to be used in Distributed Access Architecture (DAA) networks. Therefore, the node is equipped with a Remote PHY module (RPD) MRP12x2. The module MRP1212 is a 1x2 Remote-PHY and MRP1222 is a 2x2 Remote-PHY device. As an option in the future, a Remote MACPHY Device (RMD) can replace the pluggable RPD module.



### Cost optimization

Performing “automatic levelling” of the RF output levels avoids the use of additional measurement equipment and saves time during commissioning of the node.

### Management

The ORP42x2-1G8 can be fitted with a monitoring transponder that conforms to HMS or DOCSIS. As an economic alternative, an FSK transponder is also available.

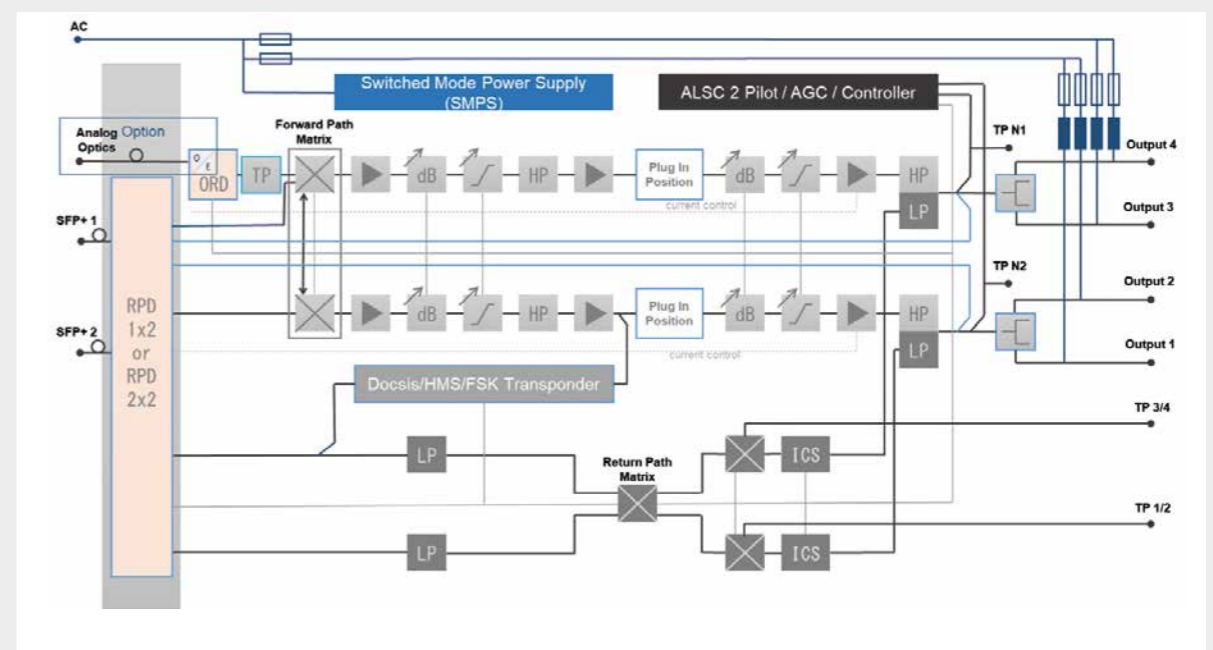
### Fiber Tray

The integral fiber management facility allows convenient and secure storage of the fibers and plugs. In addition, it permits the attachment of any optical (de)multi-plexers or splitters.

### Features

- Easily equipped with Remote PHY plug-in module MRP12x2
- Prepared for future Remote MACPHY module
- One to four high level outputs (two active final stage amplifiers)
- Third generation GaN-MMIC technology
- Power consumption management. Unused amplifier stages can be switched off
- Segmentation available in the forward and return path
- An optional analog overlay receiver module might be used
- Electronically adjustable matrix in the forward path
- Segmentation of 2 forward path signals to 2 independent amplifier chains
- Electronically adjustable matrix in return path
- Return path segmentation
- Internal optical interfaces and fiber management for full outdoor operation (protection class: IP 67)
- Electronic tuning elements enable modifications using a handheld HTE20
- „Plug-and-Play“ due to spectrum control functions
- Automatic levelling in the forward path (When RF modules are controlled locally)
- Highly efficient switched-mode power supplies
- Die-cast housing with PG 11 ports
- LEDs indicate operational mode
- Pluggable diplex filters
- Ingress Control Switch on each return path
- Ingress test socket for each return path input (externally accessible)
- Numerous EMS functions

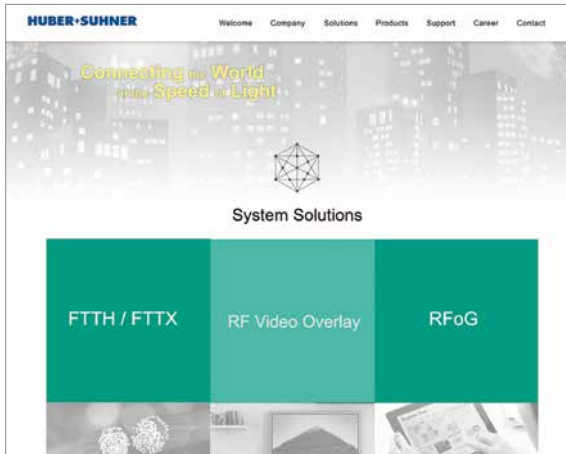
### Block diagram ORP42x2-1G8



# You have questions?

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## Network solution:



Futureproof with Fiber-to-the-home:

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Our product range:

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