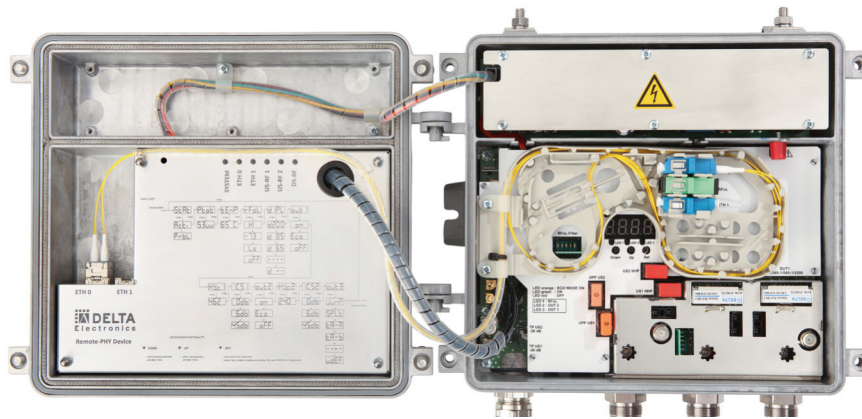


REMOTE-PHY NODE With integrated GaN launch amplifier and two active outputs



Key Benefits

- Flexible FPGA approach – the only alternative to Broadcom ASIC (Xilinx RFSoc)
- CCAP vendor independent – tested by many interops and customer trials
- Optimized housing for size, power-feeding, temperature, 6kV, etc
- Supportable also for non-IT experts/installers on site (GUI/ConsoleApp)
- Integrated design (M&C) of launch amplifier and RPHY module (eg. ECO mode, ...)
- Flexible segmentation concept (RF and IP)
- Supports NDR / NDF functions for VIAVI, Kronback, ...
- Integrated FOSTRA-F functionality in RPD
- Power bridging for short electrical outages, no reboot time needed
- DVB-C MPEG monitoring (SI information, like PCR jitter, ...)



| Typ | RPD A-R 244 |
|---|--|
| Item No. Standard Remote-Phy Node is without SFP+ modules and four cable gland | 57005332 (complete) |
| Basic standard carrier configurations but not fixed | DS 96/1 + US 16/0 or DS 64/2 + US 16/0 or DS 48/3+ US 8/1 (each 1:1 or 1:2 SG) (DS SC-QAM/OFDM + US ATDMA/OFDMA) |
| RF-Overlay | Optional electronically connectable (on/off) RFoG plug in module for extra-DS signal path with JXP pluggable bandpass filter slot |
| Final amplifier stage | 2 x Power Doubler GaN <ul style="list-style-type: none"> Switchable between full powered and configurable eco-mode Remote electrical adjustable current for exact leveling and eco-mode 119 CH 256QAM typ. 111-112dBuV/BER before RS < 1.0E-8 and MER > 42dB, up to 116dBuV/BER after RS 1.0E-09 and MER > 32dB with 9dB slope |
| Digital-Pre-Distortion DPD | Already prepared for DPD with two independent feedback loops plus integrated ADC and current control of each single GaN amplifier |
| Frequency | Pluggable diplexer modules with auto-detection and remote read out for 65/85/204 MHz split and automatic peaking |
| Slope/Att./Peaking/ICS | Electronically adjustable level plates (local via keypad/remote via CLI or GUI) for DS and US |
| Test points | -20 dB (F-female, internal) unidirectional for DS/Out 1 & DS/Out 2 -20 dB (F-female, internal) unidirectional for US 1 & US 2 |
| RF connectors | PG 11 for Out 1 & Out 2 Out 3 could be used as split or tap port to Out 2 (jumper inside for tap, split or remote power only) |
| Control | Initial access and control via serial port (µUSB). Remote control possible via CLI and GUI. Local access to RPD module will be blocked after getting connected to CCAP. 4x7 segment display for amplifier parameter and automatic menu (three button keypad) |
| Fiber connections | Fiber tray inside the node for the fiber connectivity Two 2-port LC-SC adapter for the digital signals One SC-APC adapter for the optional RF-Overlay DS signal |
| SFP+ slots | Two SFP+ slots for field replaceable SFP+ modules. Can be used for daisy chaining or redundancy design (L2) |
| Supported SFP+ modules | <ul style="list-style-type: none"> Support of mono/dual fiber, fixed or tunable wavelength 10G modules No dedicated lock for specific modules – open support (however, no guarantee for all possible variants) Specific Example: 57005351 PTO-S1-4103S 10km/1310nm/dual fiber, special industrial grade type (-40°C...+95°C) |
| Sensors | Internal temperature and housing open sensors with min/max value storage / power consumption sensor, remote readable |
| Power Consumption | Depending on enabled features and settings as well as used SFP+ modules - from 55..80W |
| Dimensions / Weight | 263 x 213 x 163 mm / 5 kg (with optional cooling plate in 19" form factor 266 x 483 x 173 mm) |

Subject to change without notice.