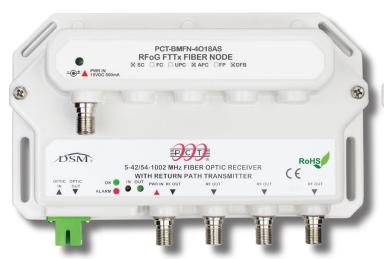
RFoG FTTx MINI FIBER NODE 4 & 8 RF OUTPUTS

Ideal for Fiber to the Curb Architectures Replace the Tap, Not the Drop!





THIS IS INNOVATION

PCT's BMFN-4OxxAS and BMFN-8OxxAS Forward and Return Path Transceivers for RFoG, PON and Hybrid PON networks deliver advanced bi-directional, interactive RF services over a passive fiber optic distribution network. Being the first RFoG mini node in the industry with 4 and 8 RF outputs, the units are designed to operate on RFoG systems or optional overlay of RFoG systems onto Passive Optical Network (PON) systems with either a 1310 or a 1610 nm return laser option. These burst-mode mini nodes provide the freedom and flexibility to work with any PON solution that uses industry standard optical wavelengths, and serves as the optical transport layer for RF video or DOCSIS technologies.

By replacing 4 or 8 output taps and eliminating the need for additional splitting elements after the node (like traditional mini nodes with only one output), bi-directional services can be provided over extended RF frequencies while being agnostic to head-end equipment and customer premises equipment. This ensures that today's operating processes are preserved. PCT's burst-mode mini nodes provide flexibility to grow your network to meet customer demand now and into the future.

Standard Features

- · 4 or 8 outputs with RF spectrum to 1 GHz
- · Universal HFC set top box and head-end support
- Transparent return path capability
- · Support most in-home applications without amplifiers
- Direct or remote powering over 75 Ohm coax cabling





RFoG FTTx MINI FIBER NODE

Delivers Advanced Bi-Directional, Interactive RF Services

Specifications

| nm dBm | | 1540 to 1565 | |
|---------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dBm | | 1540 to 1565 | |
| dBm | | 1540 to 1565 | |
| | | | |
| | | +1 to -7 | |
| dB | | SC / APC Female | |
| | | ≥ 40 | |
| | | | |
| MHz | 54 to 1002 | 85 to 1002 | 102 to 1002 |
| dBmV | | +17 per output @ 1002 MHz CW | |
| dB | | ± 2 over +1 to -6 dBm input range | |
| dBc | | ≥ 45 @ -5 dBm optical input | |
| dBc | | ≤ -60 @ -5 dBm optical input | |
| dBc | | ≤ -60 @ -5 dBm optical input | |
| dB | | ≥ 16 | |
| | | | |
| dB | | ± 1.5, excluding tilt | |
| | | | |
| dB | | 5 ± 2 | |
| | | | |
| | | | |
| nm | | 1310 ± 7 (C3) or 1610 ± 7 (C18) | |
| | | FP (1310 nm only) / DFB | |
| dBm | | 0 (FP), +3 (1310 nm DFB), +3 (1610 nm D | FB) |
| | | SC / APC Female | |
| | | | |
| MHz | 5 to 42 | 5 to 65 | 5 to 85 |
| dBmV | | 33, 4 Channels | |
| dBmV | | 15 | |
| dB | | > 10 | |
| | | | |
| | | Dedicated F port, Female | |
| DC / mA | | | |
| °C (°F) | | -40 to +70 (-40 to +158) ambient | |
| °C (°F) | | -40 to +85 (-40 to +185) ambient | |
| % | | up to 95, non-condensing | |
| dBm | | Optical Input Power LED: Green >-9, Red | <-10 |
| mm (in) | | 179 x 105 x 54.5 (7.05 x 4.13 x 2.15) | |
| | | Direct mounting in an interior panel or wa | all |
| | dBmV dB dBc dBc dBc dBC dB MHz dBmV CC(°F) % dBm nm(in) | dBmV dB dBc dBc dBc dBc dBC dB dB MB dB MB 5 to 42 dBmV dBmV dBmV dB DC / mA 1 dedi C (°F) % dBm nm (in) | dBmV +17 per output @ 1002 MHz CW dB ± 2 over +1 to -6 dBm input range dBc ≥ 45 @ -5 dBm optical input dBc ≤ -60 @ -5 dBm optical input dBc ≤ -60 @ -5 dBm optical input dB ≥ 16 dB ± 1.5, excluding tilt dB ± 1.5, excluding tilt dB 5 ± 2 nm 1310 ± 7 (C3) or 1610 ± 7 (C18) FP (1310 nm only) / DFB dBm FP (1310 nm only) / DFB dBm 0 (FP), +3 (1310 nm DFB), +3 (1610 nm D SC / APC Female MHz 5 to 42 5 to 65 dBmV 33, 4 Channels dBmV 15 dBmV 15 dBmV 15 DC / mA 15 / 500, F-type connector AC / DC power add dedicated PWR input or RF output port with power CC (°F) -40 to +70 (-40 to +158) ambient -40 to +70 (-40 to +158) ambient % up to 95, non-condensing dBm Optical Input Power LED: Green >-9, Red -nm (in) |

Ordering Information

RFoG FTTx Burst Mode Mini Fiber Node

Example: PCT-BMFN-4OxxAS Mini Fiber Node, Burst Mode, 4 RF Output, SC / APC with US Power Adapter

| РСТ | - | BMFN | - | | | | | | Description |
|-----|---|------|---|---------|----|----|----|---------|---------------------------------------------------------|
| | | | | (blank) | | | | | 5 to 42 MHz Passband |
| | | | | 65 | | | | | 5 to 65 MHz Passband |
| | | | | 85 | | | | | 5 to 85 MHz Passband |
| | | | | | 40 | | | | 4 RF Output Ports |
| | | | | | 80 | | | | 8 RF Output Ports |
| | | | | | | F | | | 1310 nm FP |
| | | | | | | 03 | | | 1310 nm DFB |
| | | | | | | 18 | | | 1610 nm DFB |
| | | | | | | | AS | | SC/APC Optical Connector Type |
| | | | | | | | FS | | FC/APC Optical Connector Type |
| | | | | | | | FU | | FC/UPC Optical Connector Type |
| | | | | | | | US | | SC/UPC Optical Connector Type |
| | | | | | | | | (blank) | US Style Power Adapter |
| | | | | | | | | С | C Style Power Adapter (Only 5 to 65 MHz or 5 to 85 MHz) |
| | | | | | | | | NP | No Power Adapter (Any Passband) |

Options and Accessories

Switch Mode Power Supply with Mounting Tab

SMPS515RH2W LED, 2 Wire Input Connector, 15 VDC, 0.5 A

SMPS515RHF LED, F Port Input Connector, 15 VDC, 0.5 A

SMPS512UTRH LED, RoHS, US Plug Style, 12 VDC, 0.5 A

Switch Mode Power Supply

SMPC512CRH RoHS, C plug, 12 VDC, 0.5 A

Power Inserter

PCT-MPI-12 High Isolation, 5 to 1218 MHz

