OPTICAL RECEIVER SYSTEM FOR SATELLITE SIGNAL

DESCRIPTION
The FiberSync PVFS-R-6 receiver converts the optical signals from the Fiber-Sync PVFS-T-6 into six wideband RF satellite channels (200-2150 MHz) while allowing a pass thru of EPON/GPON wavelengths from one single mode fiber. FiberSync receivers employ a series of high grade, replaceable micro receiver modules and a specialized CWDM. This specialized CWDM allows the delivery of data to any standard EPON/GPON ONT via the SC/APC output of the unit. LEDs indicate optical input signal is within the proper range. A typical F port style coaxial connection is used to connect the external power supply allowing for flexible powering options and reducing overall operating temperature of the unit.

FEATURES AND BENEFITS
- Six wideband RF outputs for multi satellite applications
- SC/APC optical output to deliver services to any standard subscriber EPON/GPON ONT
- F-port style power connections allows for flexibility in deployment
- Receivers are mounted in replaceable modules to keep operating costs to a minimum
- 6 (200-2150MHz) RF signal outputs from CWDM 1470-1610 nm optical signal
- Stand alone housing with mounting holes

SPECIFICATIONS
(Housing)
- Number Of RF Output Port(s): 6 F-type
- Number Of Fiber Input Port(s): 1 SC/APC
- Number of Fiber Output Port(s): 1 SC/APC
- Power Supply Port(s): 1 F-type
- Dimension L x W x H: 245 x 180 x 60 mm
- Power Supply Indicator: Single Color LED; green LED - on
- Optical Input Power Indicator: 3 Single Color LED; low-red, normal-green, high-red

(RF Specifications)
- Frequency Range: 200-2150 MHz
- Impedance: 75 ohm
- RF Output Level: -30 dBm; -30dBm tp with -10dBm optical input power
- Flatness: ±1.5 dB
- CNR: ≥45 dBc
- CSO: ≥56 dBc
- CTB: ≥60 dBc
- IMD: ≥50 dBc
- Output Return Loss: ≤-12 dB

Patent Pending
SPECIFICATIONS (cont'd)

(Optical Specifications)
- Wavelength Range: 1470-1610 nm; CWDM 1470, 1510, 1530, 1570, 1590, 1610
- Data Optical Wavelength Pass Through: 1490, 1550, 1310 nm
- Data Optical Insertion Loss @ 1490, 1550 and 1310 nm: 1.5 dB nominal, 2 dB maximum
- Optical Input Power: -18 ~ -8 dBm; 1470-1610 nm
- Gain Control: AGC; 8 dB (Optical Power)
- Optical AGC Accuracy: ±1.0 dB; In optical AGC mode with input signals ranging from -18 to -8 dBm (1470-1610 nm)
- Optical Input Return Loss: ≤45 dB

(Power Supply Specifications)
- DC Power Input: F-type
- Supply Voltage (Current): 20-29V(1-1.5A)
- Maximum Power Consumption: 30 W

(Environment Specifications)
- Operating Temperature Range: -10 ~ +55 °C
- Storage Temperature Range: -45 ~ +85 °C
- Maximum Relative Humidity: ≤95%; No Condensation

ADDITIONAL INFORMATION
- Power supply not included
- Recommended power supply: PI29R1
- For indoor use only (heated and cooled area of a building)
- Conforms to FCC CFR 47 Part 15 Class A