

Applications:

- Video distribution in FTTX networks

Key Highlights:

- 1550 nm wavelength
- Optical pass-through for 1310 and 1490 nm
- Optical input range from +3 dBm to -12 dBm
- RF frequency range 47 MHz to 862 MHz
- RF power output 92 dBuV



Many carriers today still deliver TV using analog RF technology. While the industry trend is to offer an IPTV model the cost to convert or deploy and IPTV headend solution can be expensive and time consuming. The challenge facing service provider is then how to cost effectively migrate to an IPTV model while still preserving the analog TV revenue. ReadyLinks solves the migration challenge by combining the ORB-101 with either its world class IP over Coax 1410 solution for Multi-Dwelling Units (MDU) or the Rhino Single Family Residence (SFU) ONT. The ReadyLinks offering allows the simultaneous delivery of analog RF TV services plus advanced services such as IPTV and High Speed Internet Access (HSIA) without the need for a wholesale upgrade of the TV content delivery model. In addition these advanced services are delivered over the existing coaxial plant thus eliminating the expense of CAT5 rewiring.

The Optical RF Bridge (ORB) provides a capability to deliver both RF TV signals as well as IP Triple Play services via a fiber based MDU and Active SFU deployments. The ORB technology uses Wave Division Multiplexing technology at the 1550nm and 1310nm/1490nm wavelengths on a single fiber. The compact low power ORB designs allows service providers to deliver an RF TV overlay solution as well as a future proof IP Triple play offering to its customers.

RF video for MDU Applications

By combining the ORB-101 and the IPC1410 a carrier can deliver a plethora of advanced services to the end customer. The ORB 101 terminates the multiple wavelengths on a GiGE fiber connection and separates the RF TV channel line up (1550nm) and the interactive IP services (1310nm/1410nm) at the MDU demark point.

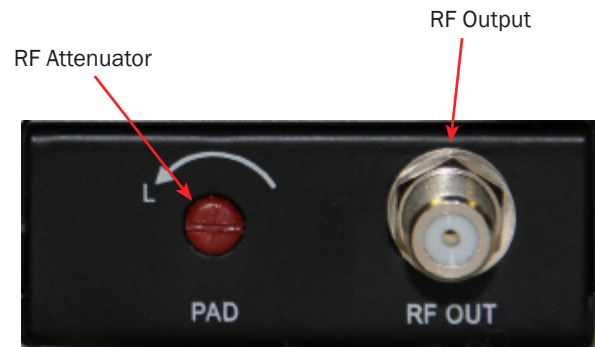
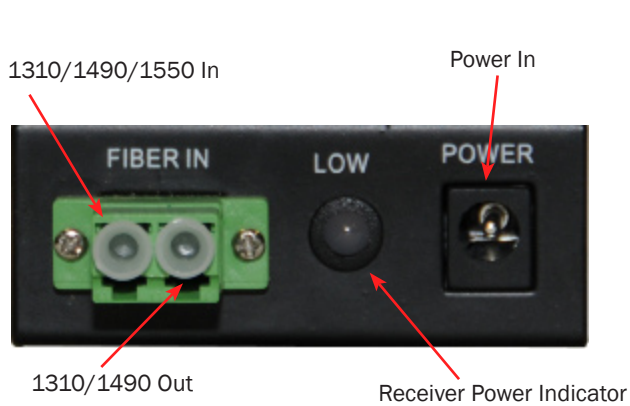
The RF TV wavelength is converted to standard coaxial signal which is broadcast by the IPC1410 to all the coaxial based MDU customers.

The IP interactive services (1310nm/1410nm) wavelengths are terminated at the IPC1410 and the associated services which can include IPTV, High Speed Internet Access, and VoIP services are then both managed and merged with the analog RF TV signals for full IP service delivery across the coaxial plant.

RF video for SFU Applications

By packaging the ORB-101 and the RHINO products a carrier can deliver a plethora of services to the end customer. The ORB 101 terminates the multiple wavelengths on a fiber and separates CATV RF TV channel (1550nm) and the interactive IP services (1310nm/1410nm) at the SFU demark point.

The RF TV wavelength is converted to standard RF TV analogue signals which is delivered across the in-home coaxial plant. The IP interactive services (1310nm/1410nm) wavelengths are terminated at the RHINO and the associated services which can include IPTV advanced services, High Speed Internet Access, VoIP are then converted/managed and merged with the RF TV signal for full delivery across the coaxial plant.



Specifications	
Environmental Specifications	
Operating Temperature, Storage Temperature	-20 to 50° C, -40° C to 50° C
Input Voltage, Power Consumption	12 VDC @ 100 mA, AC transformer 100-240V (50-60 Hz)
Humidity	10 to 90% non-condensing
Certifications	UL, CE, CUL, FCC Part 15 Class B, EMC 89/336/EEC, ICES-003
Optical Specifications	
Wavelength	1550 nm ± 10 nm
Receive Power	+3 dBm to -12 dBm
Optical Return Loss	>55 dB
Optical Connector	LC/APC
RF Specifications	
RF Bandwidth	47 MHz to 862 MHz
RF Frequency Response	≤ ± 1 dB
RF Output Level	32 dBmV
RF Attenuator	0 to 18 dB
Return Loss	≥ 12 dB
Output Impedance	75 ohm
Mechanical Specifications	
Dimensions, Weight	2.3"(L) x 3.8" (W) x 0.9" (H), (59mm x 98mm x 23mm), 0.5 lbs.

Note: specifications are subject to change. v1.1a

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