

# Features and Benefits

**ANTRONIX®**

## RFoG ONU R-ONU

The Antronix R-ONU is a compact 1.2 GHz bi-directional mini burst mode RFoG Optical Network Unit, the ideal platform for delivering upstream and downstream, voice, video and high speed data service over FTTH or FTTC applications. It includes Automatic gain control (AGC), Burst Mode Return Lasers, and optional bandwidth splits. It also has an optional PON Pass-through port.

- **Easy SDU and MDU Installation**
- **Standard SC/APC Optical Connector**
- **Patented CamPort® F-connectors**
- **xPON Pass Through**
- **Supports DOCSIS 3.0 and 3.1**
- **Burst Mode Operation - Laser Type; Burst Mode DFB**
- **Optical Input Range -6 to +2 dBm**
- **Optical Automatic Gain Control (AGC)**
- **Input Optical Wavelength: 1550 nm**
- **Output Wavelength Available: 1610 nm or 1310 nm**
- **Downstream Bandwidth: Up to 1250 MHz**
- **Upstream Bandwidth: 5 MHz to 42 MHz, or 5 MHz to 85 MHz**
- **Output RF Signal Level: 17 dBmV/Ch @ 860 MHz (typical) 6 dB Linear Slope 54 -1220 MHz**
- **Input RF Signal Level, 20 to 40 dBmV/Ch**
- **RF Test Point, -20 dB**
- **Supply Power, 12 Volt DC**
- **LED Indicator: Power-on, Optical Link-on**
- **Supports RFoG SCTE 174 Standard**



## Specifications R-ONU

### Electrical

<b>Model:</b> R-ONU-FW-RW-ccc-SA-G2	<b>Typical</b>
<b>Optical Receiver RF Performance</b>	
<b>Frequency Range</b>	54-1250 MHz
<b>RF Output Level</b>	17 dBmV/Ch @ 860 (typical) 6 dB linear slope 54 -1220 MHz
<b>Output Return Loss</b>	> 16 dB
<b>Flatness</b>	+/-1.0 dB
<b>Distortion Performance</b> (@ -1dBm input)	
<b>CNR</b>	51 dB
<b>CSO</b>	-60 dBc
<b>CTB</b>	-65 dBc
<b>Optical Receiver Parameters</b>	
<b>Optical Receive Bandwidth</b>	1540 – 1565 nm
<b>Input Optical Power</b>	-6 dBm to +2 dBm
<b>Connector Type</b>	SC/APC
<b>Optical Return Loss</b>	-6 dB
<b>Return Tx RF Parameters</b>	
<b>Frequency</b>	5-42 MHz , 5- 85 MHz
<b>Input Return Loss</b>	16 dB
<b>Return RF Input level</b>	Nominal +33 dBmV/carrier
<b>Flatness</b>	+/- 1.0 dB
<b>Return Tx Optical Parameters</b>	
<b>Laser Type</b>	DFB
<b>Output Power</b>	3 dBm
<b>Connector Type</b>	SC/APC

### Ordering Information

#### R-ONU-FW-RW-ccc-SA-G2

**G2: Bandwidth**  
G2: 1.2 GHz

**SA: Connector Type**  
SA-SC/APC standard

**ccc: Diplex Filter**  
042: RTN (5-42) FWD (54-1220)  
085: RTN (5-85) FWD (102-1220)

**ONU Technology**  
R-ONU (RFoG)

**Forward Wavelength**  
15: Standard 1550

**RW: Reverse Wavelength**  
61: 1610 nm  
31: 1310 nm

#### Ex: R-ONU-15-61-085-SA-G2

R-ONU: RFoG Technology

15: FWD 1550 nm

61: RTN 1610 nm

085: 85 MHz Diplex Filter

SA: SA-SC/APC

G2: 1.2 GHz