

# CATV Receiver with WDM

GPON ONU-CATV

airlive®



Small size  
CATV Receiver

Single  
RF Out

-25°C ~ +65°C  
Temp Range

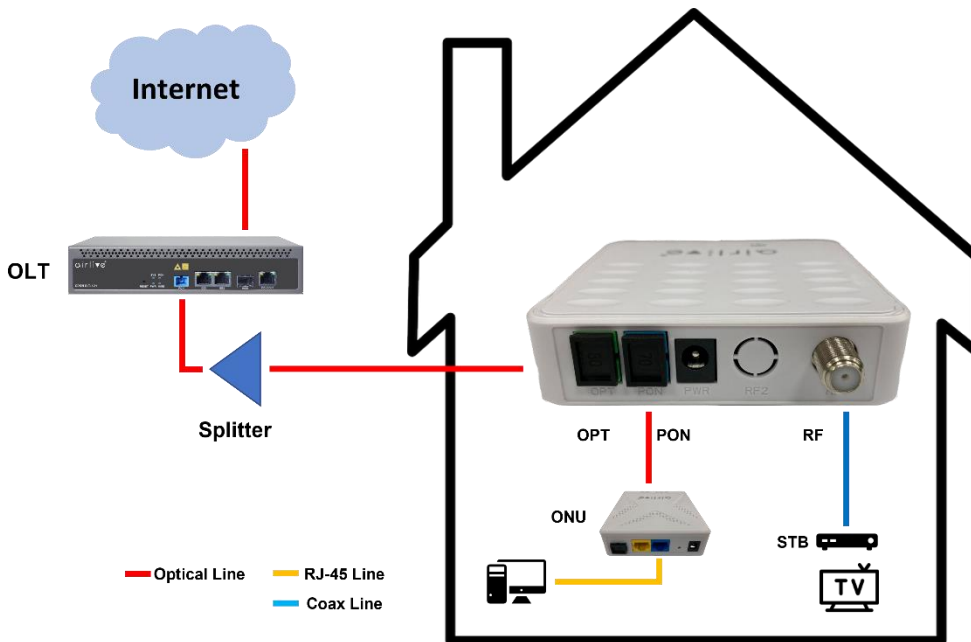
OPT In  
PON/RF Out

Build in WDM

Low Power  
Consumption  
<1W

## Overview

The GPON ONU-CATV is a recently launched ONU that is a mini optical receiver with build in WDM. The GPON ONE-CATV, is a high-performance device that combines gigabit passive optical network (GPON) technology with cable television (CATV) services. This receiver allows you to enjoy ultra-fast broadband internet and high-quality TV channels over a single fiber optic cable. It supports up to 2.5Gbps downstream and 1.25 Gbps upstream data rates, as well as 1550 nm wavelength for CATV signal transmission. The ONU is specially designed to meet the needs for FTTH (home) transmission applications. It delivers excellent frequency and distortion responses with low noise, high RF output, and low power consumption.



## Highlight Feature

- 1 GHz operating bandwidth
- Lower input optical range:+2~-20dBm
- Output level up to 75dBuV (@-15dBm power input)
- 1 RF Output optional(1\*71dBuV)
- Low power consumption<1.0W

Model	GPON ONU-CATV
<p><b>Device Interface</b></p> <ul style="list-style-type: none"><li>• <b>Optical Connector Type:</b> OPT 1x (1550/1490/1310nm Optical input SC/APC) PON 1x (1490/1310nm Data interface SC/PC)</li><li>• <b>RF Output:</b> 1x RG6 Connector</li><li>• <b>LED Optical Indicator</b> Optical power &lt;-16dBm ,Red Optical power &gt;-16dBm ,Green</li></ul> <p><b>Optical Specifications (Forward Path)</b></p> <ul style="list-style-type: none"><li>• <b>Wavelength:</b> 1550/1490/1310nm (Com Port (OPT)) 1490/1310nm (For ONT (PON))</li><li>• <b>Optical Power Input Range:</b> +2 ~ -20dBm</li><li>• <b>AGC Range:</b> +2 ~ -15dBm</li><li>• <b>Optical Input Return Loss:</b> ≥45dB</li></ul> <p><b>RF Specifications (Forward Path)</b></p> <ul style="list-style-type: none"><li>• <b>Bandwidth:</b> 47 ~ 1003Mhz</li><li>• <b>Flatness:</b> ±1.0dB (47 ~ 1003MHz, At 25 °C)</li><li>• <b>Slope:</b> 0 ~ 2.0dB (47 ~ 1003MHz, At 25 °C)</li><li>• <b>Temperature Stability:</b> ±1.5dB (In the operating temperature range (-25 ~ +65 °C))</li><li>• <b>Output Level:</b> 75±2dBuV (-15dBm input optical power, The analog channel, per channel modulation 4.0%, in the 860MHz point test, at 25°C)</li><li>• <b>Impedance:</b> 75 Ohm</li><li>• <b>Return Loss (47 ~ 1000MHz):</b> ≥12dB At 25 °C</li><li>• <b>MER:</b> ≥30dB -15 ~ -5dBm Input optical power ≥24dB -20 ~ -16, Input optical power</li><li>• <b>Power:</b> &lt;1.0W</li></ul>	<p><b>Power Supply</b></p> <ul style="list-style-type: none"><li>• <b>Input Voltage:</b> DC 5V, 0.5A Power Adapter</li></ul> <p><b>Environment</b></p> <ul style="list-style-type: none"><li>• <b>Operating Temperature:</b> -25°C to +65°C</li><li>• <b>Storage Temperature:</b> -40°C to +70°C</li><li>• <b>Storage Humidity:</b> ≤95%, non-condensing</li></ul> <p><b>Standard package of switch</b></p> <ul style="list-style-type: none"><li>• <b>Product size:</b> Product Dimensions: 9x8.5x2.5 cm Package Dimensions: 11x10x5.5cm</li><li>• <b>Package Weight:</b> Product N.W: 0.082KG Product G.W: 0.190KG</li><li>• <b>Package content:</b> GPON ONU-CATV x 1, QIG x 1, Power Adapter.</li><li>• <b>Ordering Information</b></li><li>• <b>Model:</b> GPON ONU-CATV</li><li>• <b>Name:</b> GPON ONU-CATV, CATV Receiver with WDM, 1x RF Out, 1x PON, 1x OPT</li></ul>

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