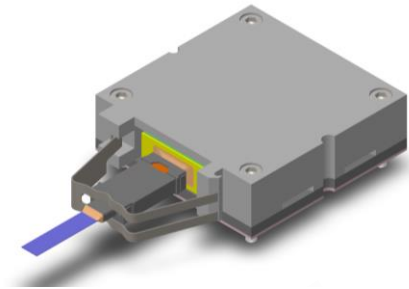


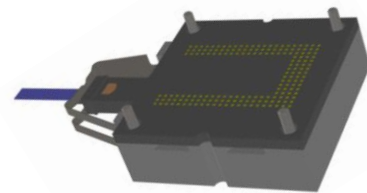
## 32 GHz Multi-Channel Analog Optical Receiver: AO-RCAO4x-yyy

### PRODUCT FEATURES

- Supports up to 4 independent controllable channels
- AC-coupled electrical interface
- Bandwidth ranging from 100 MHz up to 32 GHz
- High optical input power (<6 dBm)
- Spurious free dynamic range (>50 dB)
- RF output power range -10 to -6.5 dBm
- Detachable LGA electrical interface
- Operating case temperature
  - Uncooled version (10°C to 65°C)
  - Cooled version (-40°C to 85°C)
- Low SWaP Device
- Small Form Factor (30x30x8mm<sup>3</sup>)
- Uncooled Power consumption < 1 W

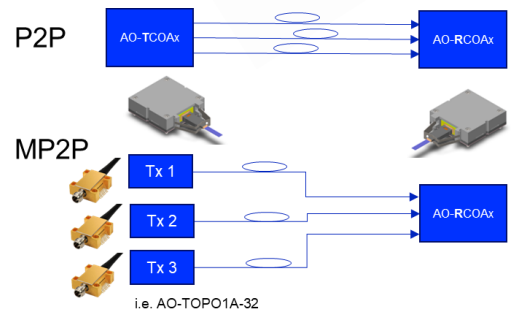


Picture shows product example, actual product might differ



### APPLICATIONS

- Ka/Ku band satellite communications
- 5G satellite communications
- Remote antennas
- Phased array antenna



The AO-RCAO4x-yyy is an analog optical receiver module operating at 1.3  $\mu\text{m}$  in single mode fiber, connected with an MT male ferrule. It contains of 4 individual optical channels operating at frequencies up to 35 GHz. The four waveguide photodiodes, amplified with a TIA with automatic and variable gain, offer excellent performance with high RF output power of up to -6.5 dBm at an optical input power of up to 6 dBm, low noise and a high link gain. An uncooled version offers lowest possible power consumption of < 1 W for use in satellite applications, whilst a cooled version supports an extended industrial temperature range of -40°C to 85°C. The hermetic optics are best suited for harsh environments, whilst delivering leading edge performance.

A complementing Transmitter module AO-TCAO4x-yyy is also being offered, to complete point to point RF links and to offer lowest total power consumption of 0.5 W per single link.

### GENERAL STATEMENT

The 4 Channel Transmitter is RoHS-6 compliant per EU Directive 2011/65/EC.

For more information, please contact your local Sales partner or send a request to the Coherent homepage [www.coherent.com/support](http://www.coherent.com/support).