

# CH3000-RECEIVERS | CH3000 Optical Receivers



## Couplers, Splitters, Filters, and Muxes/Demuxes - ISP

ARRIS CH3000 forward and return path Optical Receivers are an integral part of the ARRIS CH3000 platform.

AR3002 Analog Forward Receivers:

- AR3002E, Single 46-1218 MHz
- High RF output allows passive RF splitting
- Optical input, Analog
- Up to 14 receivers per 3RU CH3000 chassis

AR3044 Analog Return Receivers (Quad Density):

- AR3044H, Quad 5-204 MHz, AR3044L, Quad 5-300 MHz
- High RF output allows passive RF splitting
- Optical input, Analog
- Up to 56 receivers per 3RU CH3000 chassis

DR3600N Digital Return Receiver (Next Generation Quad Density):

- DR3600N, 5-100/5-204 MHz, Quad 1-fer/2-fer Operates in two RF bandwidth ranges: 5-100 MHz or 5-204 MHz (firmware selectable)
- High packaging density, four receivers per single width, full-depth module slot. Up to 56 receivers per 3RU CH3000 chassis.
- Single channel link mode or dual channel "2-fer" link modes, selectable via software user interface
- High RF output: up to 35 dBmV per 6.4 MHz carrier in 100 MHz mode; up to 32 dBmV in 204 MHz mode
- 30+ dB of system RF gain from transmitter input to receiver output
- Superior noise performance
- Front access -20 dB RF test point, selectable for each input
- Hot plug-in/out
- Local and remote status monitoring
- With BP3400C Quad Back Plate: 16 RF outputs, 4 slots wide supports 4 Quad DRs, 8 sockets for SFP-style dual RXs, deploy as needed, 1 socket for SFP TX/RX optional for management traffic

DR3450N Digital Return Receiver (Quad Density):

- DR3450N-50, 5-50/5-100 MHz, Quad 1-fer/2-fer, DR3450N-75, 5-65/5-100 MHz, Quad 1-fer/2-fer
- Operates in three RF bandwidth ranges: 5-50 MHz, 5-65 MHz, or 5-100 MHz (firmware selectable)
- High packaging density, four receivers per single width, full-depth module slot. Up to 56 receivers per 3RU CH3000 chassis.
- Single channel link mode or dual channel "2-fer" link modes, selectable via software user interface
- High RF output: up to 38 dBmV per 6.4 MHz carrier in 50 MHz mode, up to 35 dBmV in 100 MHz mode
- Concatenated or point-to-point applications
- 30+ dB of system RF gain from transmitter input to receiver output
- Superior noise performance

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OR3144 RFOG Quad Diplexer and Low Noise Return Receiver:

- OR3144H, 5-85 MHz
- Quad RFOG Diplexer/Return Receiver in ½ slot module for CH3000: Integrates AR and combining functionality, 4 parallel broadcast signals downstream with 4 reverse signals fed to one RF output
- Interfaces – Four 1550 nm BC inputs: Four Network bi-directional Network ports - BC & Analog return, Four optical return paths combined to 1 RF output. Supports 1610, 1590, or 1310 nm optical return. Migrate from legacy (non-standard compliant 1590 wavelength) CPEs to 1610
- Superior low noise performance: < 2 pA/γHz, Internal RF combining of 4 receivers without the associated noise degradation of alternative approaches provides up to 6 dB improvement
- Low power consumption: 2W
- High Density: up to 96 receivers in 3RU

## Product Classification

**Regional Availability** Asia | Australia/New Zealand | EMEA | Latin America | North America

**Product Type** Optical receiver