

# CH3000-TRANSMITTERS | CH3000 Optical Transmitters

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## Forward and Return Path Optical Transmitters

The ARRIS CH3000 families of forward and return path Optical Transmitters serve as the launching point for one of the industry's most innovative optical transport headend platforms. By offering the widest range of cost-effective solutions for network extensions, upgrades, and new builds, ARRIS's CH3000 transmitters fulfill all your architectural needs.

### HT358xH 1550 nm Quad-Density Full Spectrum DWDM Transmitters:

- DWDM transmitter: up to 16 wavelengths on the ITU grid
- Optimized for full spectrum all QAM/OFDM loading
- 1.2 GHz to support DOCSIS® 3.1 deployments
- Highest rack density in its class: up to 48 transmitters per 3RU chassis, with redundant power supplies and optical multiplexing
- Hot plug-in/out, individually replaceable transmitter modules
- Low power consumption
- Dual RF inputs that are ideal for combining separate broadcast and narrowcast inputs
- Manual or Automatic Gain Control (AGC) modes
- Quad-Density Back Plate options that simplify installation and provisioning

### HT354xH 1550 nm Double-Density Full Spectrum DWDM Transmitters:

- DWDM transmitter: up to 40 wavelengths on the ITU grid
- HT3541H: Analog loading up to 258 MHz plus QAM loading
- HT3542H: Analog loading up to 552 MHz plus QAM loading
- 1.2 GHz to support DOCSIS 3.1 deployments
- High rack density: up to 24 transmitters per 3RU chassis, with redundant power supplies and optical multiplexing
- Hot plug-in/out, individually replaceable transmitter modules
- Low power consumption
- Dual RF inputs that are ideal for combining separate broadcast and narrowcast inputs
- Internal RF amplifier up to +6 dB
- Manual or Automatic Gain Control (AGC) modes
- Double-Density Back Plate options that simplify installation and provisioning

### HT3562H 1550 nm Double-Density Full Spectrum Transmitters:

- Externally modulated full spectrum transmitter: up to 16 wavelengths on the ITU grid
- Enhanced MER performance over distances beyond 60 km providing tremendous value to multiple-system operators (MSOs) migrating to high order modulation technologies.
- 1.2 GHz to support DOCSIS 3.1 deployments
- Support for full QAM/OFDM loading or partial analog loading (up to 258 MHz) plus QAM/OFDM loading up to 1.2 GHz
- Industry's highest rack density for externally modulated transmitters: 24 transmitters per 3RU chassis, including redundant power supplies and optical multiplexing
- Hot plug-in/out, individually replaceable transmitter modules
- Optional RF input equalization controls
- Manual or Automatic Gain Control (AGC) modes

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- Double-Density Back Plate options that simplify installation and provisioning

## AT3572H 1550 nm Full Spectrum Transmitters:

- Externally modulated full spectrum transmitter: up to 16 wavelengths on the ITU grid
- Enhanced performance featuring improved MER performance over extended distances beyond 100 km to support reliable high order modulation transmission
- 1.2 GHz to support DOCSIS 3.1 deployments
- Support for full QAM/OFDM loading or partial analog loading (up to 552 MHz) plus QAM/OFDM loading up to 1.2 GHz
- Hot plug-in/out, individually replaceable transmitter modules
- Dual RF inputs that are ideal for combining separate broadcast and narrowcast inputs
- Manual or Automatic Gain Control (AGC) modes

## HT33xxH 1310 nm Double-Density Transmitters:

- Models available for 3 to 12 dB link loss budgets
- 1.2 GHz to support DOCSIS 3.1 deployments
- Highest rack density in its class: 24 transmitters per 3RU chassis, with redundant power supplies and optical multiplexing
- Hot plug-in/out, individually replaceable transmitter modules
- Low power consumption
- Dual RF inputs that are ideal for combining separate broadcast and narrowcast inputs
- Optional Automatic Gain Control (AGC)

## DT3550N Digital Return Transmitters:

- Multiplexes two RF return segments onto one optical return path ("2-fer")
- Support for pluggable SFPs provides flexibility of choices of optical output on 100 GHz ITU DWDM grid, CWDM grid, 1550 nm, or 1310 nm options
- RF return bandwidth 5 to 100 MHz

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Product Type</b>	Optical transmitter