



## CHP Max<sup>®</sup>

# CORWave<sup>™</sup> II Multi Wavelength Forward Transmitters



### Features

- Full spectrum broadcast and narrowcast capability up to 65 km
- Business and residential services can be run over as few as one fiber with no service interruptions caused by optical impairments\*
- 1 GHz bandwidth
- CORView Element Management System
- 1 RU platform
- Best parts and labor warranty in the industry
- 24/7 world class ARRIS technical support

The CORWave<sup>™</sup> II Multi Wavelength Forward Transmitter is the latest addition to the ARRIS extensive line of CORWave transmitters. Each CORWave II transmitter supports full spectrum broadcasting and narrowcasting at 54 to 1002 MHz for up to 65 km without the complexity and operational expense of traditional DWDM QAM overlay architectures.

CORWave II provides the ability to multiplex up to 16 full spectrum wavelengths in the forward path over one fiber effectively saving operators CAPEX that would otherwise be spent on new fiber runs. MSOs can also consolidate or eliminate OTN sites, split nodes in distant locations for success-based expansion, and combine broadcast and narrowcast signals in the environmentally controlled headend. As a result, complex field set-ups are reduced allowing new services to be deployed quickly. The ARRIS multi wavelength plan eliminates service interruptions due to optical impairments allowing business and residential services to be run over one fiber if desired.

The CORWave II can be monitored by the CORView element management system which provides an intuitive and user-friendly interface for security, discovery, configuration, and inventory functions.

### Related Products

ARRIS offers a complete line of CORWave transmitters, Opti Max nodes, EDFAs and optical passives - LGX style and splice enclosure packages, supporting 4 x 4, 2 x 4, and 2 x 2 network segmentation.

CHP Max high input level, constant gain EDFAs offer a low noise, scalable optical amplification solution with integrated element management and are designed for use with CORWave II transmitters.

\*By using ARRIS recommended wavelength plan

# CHP MAX® CORWave™ II Multi Wavelength Forward Transmitters

## Transmitter Specifications

### Optical

- Wavelength: 1528 to 1562 nm, 16 optimized wavelengths
- Output Power: 8.5 dBm
- Link: Up to 65km<sup>1</sup>

### RF

- Operating Bandwidth: 54 to 1002 MHz
- Channel Loading: 54 to 550 MHz analog channels, 450 MHz 256QAM channels (6 dB below analog)
- Input RF Power: 15 to 25 dBmV
- RF Input Impedance: 75Ω
- Flatness: ±1.0 dB
- Test point: -20 ± 1.0 dB

### Typical Link Performance

- CNR: 50 dB<sup>2-3</sup>
- CSO: -60 dBc<sup>2-3</sup>
- CTB: -60 dBc<sup>2-3</sup>

### Electrical/Environmental/Mechanical

- Power Consumption: 37W typical
- Optical Connector: SC/APC
- RF Connector: F-type
- Control Interface: SNMP Ethernet
- Dimensions, in (cm) W x H x D: 18.98 x 1.75 x 14.75 (48.2 x 4.45 x 37.5)
- Weight, lbs (kg): 2.75 (1.24)
- Temperature, C (F), Operational: 0 to 50 (32 – 122)
- Temperature, C (F), Storage: -20 to 60 (-4 to 140)
- Humidity: 85%, noncondensing, max.

### Notes:

1. Typical CORWave II operational ranges are 4 to 16 wavelengths, up to 65km.
2. Link performance based on 8 wavelengths over 45km with two EDFAs and optical passives at the receiver, 77 NTSC channels measured according to standard procedures.
3. CNR and CSO/CTB may degrade up to 0.5 and 2.0 dB, respectively, over full operating temperature range and overall polarization states.

Specifications subject to change without notice.

## Part Number Description

			<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>			<b>5</b>	<b>6</b>	<b>7</b>			<b>8</b>	<b>9</b>			<b>10</b>			<b>11</b>
<b>C</b>	<b>2</b>	<b>-</b>	<b>M</b>	<b>W</b>	<b>x</b>	<b>x</b>	<b>-</b>	<b>D</b>	<b>x</b>	<b>x</b>	<b>-</b>	<b>x</b>	<b>x</b>	<b>-</b>	<b>S</b>	<b>-</b>	<b>A</b>				

1-7	Multi-Wavelength
MW01-D01	First wavelength
MW02-D02	Second wavelength
MW03-D03	Third wavelength
MW04-D04	Forth wavelength
MW05-D05	Fifth wavelength
MW06-D06	Sixth wavelength
MW07-D07	Seventh wavelength
MW08-D08	Eighth wavelength

1-7	Multi-Wavelength
MW09-D09	Ninth wavelength
MW0A-D10	Tenth wavelength
MW0B-D11	Eleventh wavelength
MW0C-D12	Twelfth wavelength
MW0D-D13	Thirteenth wavelength
MW0E-D14	Fourteenth wavelength
MW0F-D15	Fifteenth wavelength
MW0G-D16	Sixteenth wavelength

8-9	Optical Out
08	8.5 dBm output

10	Connector Type
S	SC/APC

11	Power
A	AC
D	DC (Contact ARRIS for availability)

## About ARRIS

ARRIS is a global communications technology company specializing in the design, engineering and supply of technology supporting triple- and quad-play broadband services for residential and business customers around the world. The company supplies broadband operators with the tools and platforms they need to deliver reliable telephony, demand driven video, next-generation advertising and high-speed data services. ARRIS products expand and help grow network capacity, reliably deliver voice, video and data services and assure optimal service delivery for end customers. Headquartered in Suwanee, Georgia, USA, ARRIS has R&D centers in Atlanta; Chicago; State College, PA; Beaverton, OR; Wallingford, CT; Cork, Ireland; and Shenzhen, China, and operates support and sales offices throughout the world. Information about ARRIS products and services can be found at [www.arrisi.com](http://www.arrisi.com).

**Contact Customer Care**—For sales and product information via the ARRIS website (<http://www.arrisi.com>) or as indicated below:

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