



CHP Max[®] CORWave[™] II Multi Wavelength Forward Transmitters Technical Specification

Implementation Requirements for Multi Wavelength Applications

Unique Requirements

Recommended wavelengths (note 1)	MW01-D01, MW02-D02, MW03-D03, MW04-D04... ..MW16-D16
Maximum launch power/wavelength	13 dBm (single wavelength), 13 dBm (4 wavelengths), 10 dBm (8 wavelengths)

Common Requirements

Analog content	Must use common analog content (note 2)
Digital content	Must use common digital content below 250 MHz (notes 2, 3)
Analog RF input level	15 dBmV/channel (note 4)
Digital RF input level	9 dBmV/channel

Notes

- ARRIS recommends MW01-D01 as the first wavelength.
- Maximum RF input cable length difference to transmitters is 100 feet.
- Unique digitally modulated narrowcast content only permitted above 250 MHz.
- 15 dBmV for 77 analog carriers with 450 MHz of digital @ -6dB; contact ARRIS representative for different channel line-ups

General Specifications

Optical

Wavelength	1525 to 1565 nm, 16 optimized wavelengths
Output Power	8.5 dBm
Link	Up to 65km ¹

RF

Operating Bandwidth	54 to 1002 MHz
Channel Loading	54 to 550 MHz analog channels, 450 MHz, 256 QAM channels (6 dB below analog)
Input RF Power:	15 dBmV for 77 analog carriers with 450 MHz of digital @ -6dB
RF Input Impedance:	75Ω
Flatness	±1.0 dB
Testpoint	-20 ± 1.0 dB

Typical Link Performance

CNR	49 dB ²⁻³
CSO	-60 dBc ²⁻³
CTB	-60 dBc ²⁻³

ARRIS Technical Specifications

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 40km with one EDFA and optical passive 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.

Ordering Information

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

1-7	Multi-wavelength
MW01-D01	First wavelength
MW02-D02	Second wavelength
MW03-D03	Third wavelength
MW04-D04	Fourth wavelength
MW05-D05	Fifth wavelength
MW06-D06	Sixth wavelength
MW07-D07	Seventh wavelength
MW08-D08	Eight wavelength
MW09-D09	Ninth wavelength
MW0A-D10	Tenth wavelength
MW0B-D11	Eleventh wavelength
MW0C-D12	Twelfth wavelength
MW0D-D13	Thirteenth wavelength
MW0E-D04	Fourteenth wavelength
MW0F-D15	Fifteenth wavelength
MW0G-D16	Sixteenth wavelength

8-9	Optical Output
08	8.5 dBm output

10	Connector Type
S	SC/APC

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

Specifications are subject to change without notice.

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