



Opti Max2100 1GHz Segmentable Cabinet Node Technical Specification

General Node Specifications

	Characteristic	Specification
Downstream Optical	Optical Input Level Range, @ 1002MHz, 5% OMI	-6 to 3 dBm without optical AGC; -6 to 0 dBm with optical AGC
	Optical Input Wavelength	1290 to 1600nm
	Optical AGC Tuning Range	±0.75 dB over complete operational level range
	Equivalent Input Noise	5 pA/Hz ^{0.5}
	Optical Input Testpoint Level	1 V/mW ± 10%
Downstream RF	Operating Passband	85 to 1002MHz
	Factory Aligned Tilt	5 ± 1.0dB
	Flatness	±0.6/±1.2dB, typ./max. (from 90 to 1002MHz)
	Thermal Level Stability	± 1.5dB
	RF Output Testpoint	-20 ± 0.75dB
Performance (Note)	Reference Output Level, P1/P4 output	112.5dBμV/104.5dBμV (870/47MHz)
	CNR, min.	57.5dB, > -6.0dBm input
	CTB, min.	68dBc
	CSO, min.	65dBc
	XMOD, min.	68dB
Upstream	Operating Passband	5 to 65dB
	Isolated DFB Lasers	1310 ± 20nm (0 and +3dBm); 1550 ± 20nm (+3dBm)
	Isolated CWDM DFB Lasers	1471 to 1611 nm ± 6.5 nm, 20 nm spaced; +3dBm
	RF Input Level	70dBμV (10dBmV) to port; 66dBμV (6dBmV) to TX, per carrier
	RF Input Testpoint	-20dB ± 0.75dB
	Optical Power Testpoint	1V/mW ± 10%
	NPR Dynamic Range	35/15 NPR/dB
BER Dynamic Range	43/33 dB (QPSK/QAM-16)	
Powering	AC Input Voltage	28 to 65V rms, 47 to 60Hz
	Local Powering	90 to 250VAC, 47 to 60Hz
	AC Current Passing, all ports	10A
	Power Consumption	99W max. for fully configured node
Physical and Environmental	Dimensions (W x H x D)/Weight, approx.	314 x 132 x 303 mm/8.0kg
	Connectors	
	Optical Fiber Patch Cord Entry Option	PG16, 5/8-inch UNEF
	Optical Connector Option	SC/APC, FC/APC
	RF Output Port Options	5/8-inch UNEF, IEC, 3.5/12, F-type (female), PG11
	RF Testpoints	mini SMB
	Operating Temperature Range	-20 to 60°C

Note: Splitter or tap and additional diplexer for P2 and P3 outputs decrease RF output level. Distortions tested with 42 CENELEC channel loading, and with diplexers installed and 8 dB slope from 47 to 862 MHz. Measured with -6 dBm optical input power and 5% OMI. Refer to the Opti Max2100 Equipment Manual (P/N 1503247) for complete specifications.

Specifications are subject to change without notice.

Ordering Information

To configure a product that meets your specific needs, or for any questions, please contact your ARRIS Sales Professional. You may also use our Product Wizard, located at support.arris.com (User ID and password required). If you do not have a user ID and password or have forgotten your password, please use the Sign In Help section indicated.

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