

ARRIS GX2 EA1000 Serie

1550 NM BROADCAST / NARROWCAST TRANSMITTER

The OmniStar GX2-EA1000 series of 1550nm Broadcast/Narrowcast transmitters uses advanced technology to provide low chirp and noise for superior distortion performance. The narrow line width of the laser allows for lower dispersion characteristics that achieve similar performance of broadcast 1310 transmitters with the ability to transmit multiple wavelengths on a single fiber in the C-Band.



- Full performance 52–1003 MHz forward bandwidth
- Multi wavelength downstream solution
- Link distances up to 60 km
- 12 dBm SBS suppression per wavelength
- Available in ITU Channels 20 through 35
- No dispersion compensation required

SYSTEM APPLICATIONS

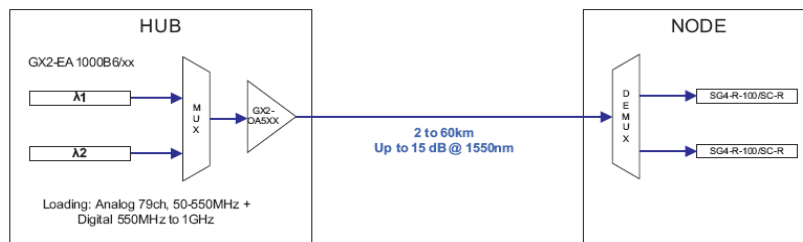


Figure 1 - Multi-Wavelength Downstream Fiber Deep: 2 Wavelengths – Analog + Digital Loading

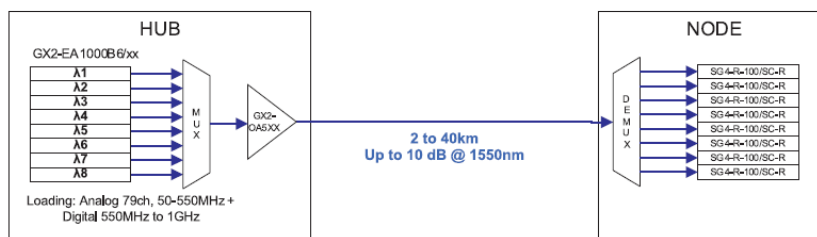


Figure 3 - Multi-Wavelength Downstream Fiber Deep: 8 Wavelengths – Analog + Digital Loading

PERFORMANCE DATA

MODEL	NUMBER OF WAVELENGTHS	LINK DISTANCE (KM)	CCN (DB)	CSO (DB)	CTB (DB)
Analog + Digital	2	60	48	-60	-62
	4	10	51	-60	-62
	4	40	50	-60	-62
	8	40	50	-60	-62
MODEL	NUMBER OF WAVELENGTHS	Link Distance		MER (dB)	
Digital only	8	50		38.5	
	8	70		37.5	

OPTICAL	
Optical Output Power	6 dBm minimum
Optical Wavelength, accuracy	± 0.1 nm, over operator temperature range
Optical Connectors	SC/APC
Laser Shutdown	Enable/Disable via GX2 Control Module
SBS Suppression, minimum	+12 dBm per wavelength
RF	
Operational Bandwidth	52-1003 MHz
Broadcast Input Level	15 dBmV/ch (79 NTSC Channels + 450 MHz digital at -6 dBc)
Narrowcast Input Level	15 dBmV/ch for Digital Loading (equivalent to -6 dBc from Broadcast Level)
Flatness	1.0 dB typical, peak to peak, 52 to 1003 MHz
Gain Control	12 dB, 0.5 dB Steps
RF Input Test Point	-20 dB ± 0.5 dB relative to main RF Input Port
RF Impedance	75 Ω
RF Input Return Loss	16 dB min, 52-1003 MHz (Broadcast and Narrowcast)
Narrowcast to Main Path Isolation	50 dB min, 52-1003 MHz
GENERAL	
Dimensions	1.0 in W x 5.9 in H x 15.0 in D (2.5 cm x 15.0 cm x 38.0 cm)
Weight	2 lbs (1 kgs)
Mounting	GX2-HSG Equipment Shelf
RF Connector (Housing)	G Type Module to Housing F Type Output
RF Connector (Test Point)	F Type
Operating Temperature Range	0-50° C (32° F-122° F)
Storage Temperature Range	-40° C-80° C (-40° F-176° F)
Power Consumption	17 W max
Visual Interface	Tri-Colored Module Status LED

MODEL	BESCHREIBUNG
GX2-EA1000B6/12/CH20	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH21	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH22	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH23	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH24	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH25	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH26	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH27	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH28	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH29	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH30	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH31	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH32	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH33	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH34	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power
GX2-EA1000B6/12/CH35	Transmitter, Broadcast-Narrowcast, 52-1000MHZ,+6 DBM Output Power