

ARRIS GX2 DM2000 Serie

1550 NM BROADCAST / NARROWCAST TRANSMITTER

Mit dem GX2 DM2000 1550nm Transmitter kann man diverse Anwendungen durch optimalie Linearisierung mit sehr geringen Kosten realisieren. Die 1550nm direkt modulierten Transmitter beziehen sich gewöhnlich auf Narrowcast basierende Anwendungen mit bis zu 300 MHz an QAM-Kanälen.

Die überlegene Performance des DM2000 ermöglicht jedoch die Implementierung für traditionelle Anwendungen (Broadcast) sowie Verfügbarkeit über das gesamte Spektrum.



- Downstream von 52–1003 MHz
- Mehrere Wellenlängen für diverse Applikationen
- Getrennte Narrowcast- und Broadcast-Eingänge
- Interne Dispersion Compensation für bis zu 60 km (in 1 km-Schritten)
- Single Transmitter Modul für gezielte Anwendung

SYSTEM APPLICATIONS

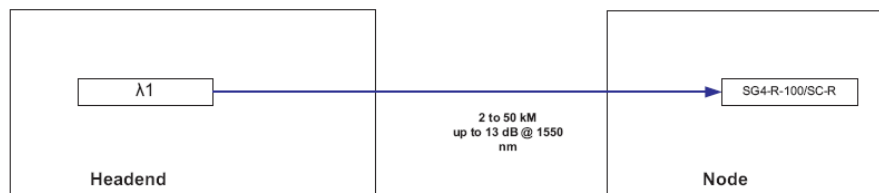


Figure 1 - Single Downstream Fiber Deep: Up to 30 Analog + Digital Loading

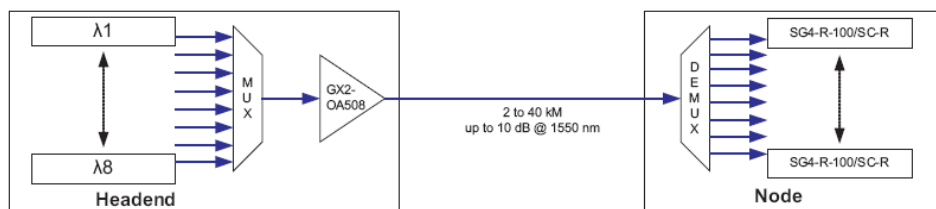


Figure 2 - Multi-Wavelength Downstream Fiber Deep: Up to 8 Wavelengths with up to 30 Analog + Digital Loading

LEISTUNGSDATEN

MODEL	NUMBER OF WAVELENGTHS	LINK DISTANCE (KM)	CCN (DB)	CSO (DB)	CTB (DB)
30 Analog + Digital	1	40	51	-61	-65
MODEL	NUMBER OF WAVELENGTHS	LINK DISTANCE	NPR (DB)	MER (DB)	
Digital only	1	40	> 40	> 38	
Narrowcast 100 MHz Digital Overlay	1	60	47.5	40	
Narrowcast 300 MHz Digital Overlay	1	60	42.5	35	

OPTICAL	
Optical Output Power	10 dBm Minimum
Optical Wavelength, Channels	20-59
Optical Connectors	SC/APC
Laser Shutdown	Enable/Disable via GX2 Control Module
Internal Dispersion Compensation	60 km in 1 km Steps
RF	
Operational Bandwidth	52-1003 MHz
Broadcast Input Level	19 dBmV $\pm$ 0.5 dBmV/ch (30 NTSC Channels + 744 MHz digital at - 6 dBc)
Narrowcast Input Level	6 dBc above Broadcast Input Levels
Flatness	1.0 dB max, peak to peak, 52-1003 MHz
Gain Control	15 dB, 0.25 dB Steps
RF input test point	-20 dB $\pm$ 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° C-50° C (32° F-122° F)
Storage Temperature Range	-40° C-80° C (-40° F-176° F)
Power Consumption	12 W typical
Visual Interface	Tri Colored Module Status LED
Data/Control	Serial Peripheral Interface (SPI) to Control Module

MODEL	BESCHREIBUNG
GX2-DM2000/10/CH20-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH21-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH22-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH23-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH24-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH25-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH30-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH31-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH32-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH33-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH34-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH35-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH40-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH41-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH42-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH43-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH44-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH45-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm

	Output Power
GX2-DM2000/10/CH50-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH51-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH52-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH53-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH54-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power
GX2-DM2000/10/CH55-R	30 Analog + QAM Transmitter, forward path,directly modulated,52MHz-1GHz,+10 dBm Output Power