

Opti Max2700

Multi-Functional Node and Lid Upgrade



- **Strategically segment C-COR legacy architecture without costly resplicing**
- **Available as an optical lid upgrade easily converting legacy C-COR trunks and bridgers to nodes**
- **Economical system segmentation minimizes costs**
- **Optimized for fiber deep architectures**
- **Fiber efficient with CWDM transmitters**

C-COR's Opti Max2700 Multi-Functional Node is the perfect complement to our Flex Max and legacy FlexNet trunk and bridger amplifiers. When deployed as a node, the Opti Max2700 is based on C-COR's proven Flex Max901e amplifier—delivering up to 1 GHz of superb performance. In addition, its unique design offers the option of purchasing the Opti Max2700 optical lid separately.

The C-COR Opti Max2700 Optical Lid Upgrade converts a legacy FlexNet 700, 800, and Flex Max900, 901, and 901e series trunk or bridger amplifier to an optical node with one forward receiver and one return path transmitter. This lets broadband service providers create optical nodes where needed—strategically segmenting their existing Flex Max and legacy FlexNet systems without costly resplicing.

The CWDM transmitters in the Opti Max2700 offer an economical method to add nodes to your system without adding fiber. A power supply with ample headroom meets present and future needs. The lid's hot-swappable, modular design eases installation and maintenance.

Features

- Upgrade Flex Max901e, Flex Max901, Flex Max900, FlexNet 800, and FlexNet 700 series amplifiers to fiber optic nodes by replacing the lid housing
- 1 GHz bandwidth node and lid upgrade when RF module is specified to 1002 MHz
- Drive fiber deeper into your HFC network
- Reduce amplifier cascades, effectively segmenting the system as needed
- Increase subscriber QoS with decreased return traffic on shortened cascades
- Eliminates resplicing costs and downtime when upgrading
- Supports optical path redundancy (*Available 2008*)
- Optional HMS/AM protocol Value Max transponder monitors lid-mounted optics as well as RF reverse switching in transponder-equipped FM901e modules (*Available 2008*)

Opti Max2700 General Node Specifications

Opti Max2700 General Node Specifications	
Number of Active RF/AC Ports	3
Number of Passive RF/AC Ports	2
Number of AC Only Ports	1
Housing Passband, MHz	1002
Port Impedance, Ω	75
AC Current Passing, A (Ports 1,3,4,6)	15
AC Current Passing, A (Ports 2,5)	13
Operating Temperature Range, $^{\circ}\text{C}$	-40 to +60
Forward Path Specifications	
Optical Specifications	
Optical Input Wavelength, nm	1290 to 1600
Optical Input Range, dBm (Note 1)	-3 to +3
RF Specifications	
Operating Passband, MHz	54 to 1002
Output Level @ 1002MHz, Pin=0dBm, 3.5% OMI, dBmV, min.	52
Level Stability, dB, max.	± 1.5
Gain Slope, dB (Trunk/Bridger)	10/18 ± 1.0
Flatness @ Gain Slope	± 1.5
Return Loss, dB, min. (All RF Ports)	16.0
Testpoints	
Forward Output, dB (-20 or -25dB)	$\pm 0.5(54-550) \pm 1.0(551-1002)$
Receiver Input Optical Level	1V/mW $\pm 10\%$
79 NTSC Channel Performance (Notes 2, 3)	
Frequency, MHz	1002/870/550/54
Output Level, dBmV	52/49.5/44/35
Carrier to Noise Ratio, 4MHz, 75 Ω , 0dB Input, dB	Trunk 55.4, Bridger 55.4
Composite Triple Beat, -dBc	Trunk 77, Bridger 72
Composite 2IM, -dBc	Trunk 68, Bridger 67
Cross Modulation, per NCTA std., -dB	Trunk 72, Bridger 65
Composite Intermodulation Noise, dB (Note 4)	Trunk 80, Bridger 71
Chrominance to Luminance Delay	
Channel 2, ns max./3.58MHz	25
Channel 3, ns max./3.58MHz	12
Channel 4, ns max./3.58MHz	10
Channel 5, ns max./3.58MHz	5
Hum Modulation (Time Domain @ 15A)	
54 to 750MHz, dB	60
751 to 1002MHz, dB	55
Gain Control, plug-in PADs	NPB-000 to NPB-200 (0-20dB)
Equalization, Plug-ins for Alternate Equalization	2-13dB
Return Path Specifications	
RF Specifications	
Operating Passband, MHz	5 to 42
Optimum RF Input Level, dBmV/6MHz	17
Gain Slope, dB	± 1.0
Flatness @ Gain Slope, dB	± 1.0
RF Level Stability, dB	± 2.5
Return Loss, dB (All RF Ports)	16.0

Opti Max2700 General Node Specifications (cont'd)

Testpoints				
RF Input, Directional, dB (-20 or -25 dB)	± 0.75			
Transmitter Output Optical Power	1V/mW ± 10%			
Group Delay				
5.5 to 7 MHz, ns, max.	60			
38.5 to 40 MHz, ns, max.	20			
Hum Modulation (Time Domain @ 15 A)				
5 to 10 MHz, dB	50			
11 to 42 MHz, dB	60			
Gain Control, plug-in PADs	NPB-000 to NPB-200 (0–20 dB)			
Opti Max2700 w/ Isolated 1310 DFB and 1550 DFB TX Specifications				
Transmitted Wavelength, nm	1310 ± 20, 1550 ± 20			
Output Power, @ conn. output, dBm (Note 5)	3.0 ± 1.0			
NPR Dynamic Range, dB (Note 6)	41/12			
Peak NPR, dB, typ. (Note 6)	48			
BER Dynamic Range, QPSK/QAM-16, dB (Notes 6, 7)	45/35			
Opti Max2700 w/ Isolated CWDM DFB Analog CWDM TX Specifications				
Transmitted Wavelength, nm	1471 to 1611 ± 6.5 nm (8 CWDM channels, 20 nm spacing)			
Output Power, @ conn. output, dBm (Note 5)	3.0 ± 1.0			
NPR Dynamic Range, dB (Note 6)	35/15			
Peak NPR, dB, typ. (Note 6)	45			
BER Dynamic Range, QPSK/QAM-16, dB (Notes 6, 7)	45/35			
Powering Requirements	DC Pwr	Input Current, A		Input Power
	(W)	@ 60/90V		(W)
Single Rx, Single DFB TX, no EMS	53.83	1.12	0.75	61.90
Single Rx, Single DFB TX, VMT installed	54.94	1.14	0.76	63.18
Single Rx, Single CWDM TX, no EMS	59.29	1.24	0.82	68.18
Single Rx, Single CWDM TX, VMT installed	60.40	1.26	0.84	69.46
Dual Rx, Dual DFB TX, No EMS	61.04	1.27	0.85	70.20
Dual Rx, Dual DFB TX, VMT installed	62.15	1.29	0.86	71.47
Dual Rx, Dual CWDM TX, no EMS	71.95	1.50	1.00	82.74
Dual Rx, Dual CWDM TX, VMT installed	73.06	1.52	1.01	84.02

Specification Document Number 1503366 Rev B

Notes:

1. Circuit resiliency to +5 dBm.
2. The distortion values listed are for the node only. To obtain a particular link performance, combine the listed node performance values with the applicable transmitter performance values.
3. Analog channels occupying the 54 to 550 MHz frequency range with digitally compressed channels or equivalent broadband noise to 1002 MHz at levels 6 dB below equivalent video channels.
4. Systems operating with digitally compressed channels or equivalent broadband noise from 550 to 1002 MHz at levels 6 dB below equivalent video channels will experience a composite distortion (CIN) appearing as noise in the 54 to 550 MHz frequency spectrum.
5. Measured at the output of the bulkhead connector.
6. All performance specifications measured over a 6 dB (pure glass) fiber link using 37 MHz Noise loading with an optical receiver causing no degradation to performance.
7. BER performance is measured with QPSK loading over 6 dB pure fiber link for a BER of 1E-6. All measurements are typical.

Powering Information

AC Input Current

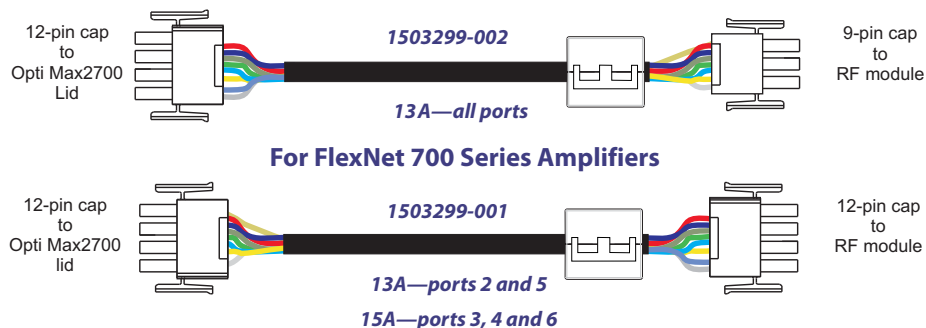
Voltage	AC Input Current (Amps) ^{1,2}										
	90	85	80	75	70	65	60	55	50	45	40
Maximum Load³	1.28	1.35	1.43	1.52	1.63	1.77	1.93	2.14	2.40	2.77	3.30
2 TX and 2 RX											
2.0A	0.98	1.02	1.07	1.13	1.20	1.30	1.41	1.55	1.73	1.97	2.29
1.8A	0.91	0.95	1.00	1.06	1.12	1.20	1.31	1.44	1.60	1.82	2.11
1.6A	0.87	0.90	0.94	0.99	1.05	1.12	1.21	1.33	1.48	1.66	1.93
1 TX and 1 RX											
2.0A	0.85	0.88	0.92	0.97	1.03	1.10	1.19	1.30	1.45	1.64	1.90
1.8A	0.80	0.82	0.86	0.90	0.95	1.01	1.09	1.19	1.32	1.49	1.72
1.6A	0.74	0.77	0.79	0.83	0.87	0.93	1.00	1.09	1.20	1.35	1.56

1. A single transmitter and receiver draw approximately 100mA at 24V; dual transmitters and receivers draw approximately 200mA at 24V. In each configuration, the RF module current draw must be added to the values in this table for accurate results. Refer to the specification sheet for your specific RF module(s) for more information.
2. Test data was conducted using C-COR standard efficiency test (334010 Rev C).
3. Maximum load = 2.3A on 24V line, 2.0A on 12V line, and 2.0A on 5V line.

AC Input Power

Voltage	AC Input Power (Amps) ^{1,2}										
	90	85	80	75	70	65	60	55	50	45	40
Maximum Load³	107	107	107	107	107	107	108	108	109	110	112
2 TX and 2 RX											
2.0A	79	79	79	79	79	79	79	79	80	80	81
1.8A	74	74	74	73	73	73	74	74	74	74	75
1.6A	69	68	68	68	68	68	68	68	68	69	69
1 TX and 1 RX											
2.0A	67	67	67	67	67	67	67	67	67	67	68
1.8A	62	62	61	61	61	61	61	61	61	62	62
1.6A	56	56	56	56	56	56	56	56	56	56	57

1. A single transmitter and receiver draw approximately 100mA at 24V; dual transmitters and receivers draw approximately 200mA at 24V. In each configuration, the RF module current draw must be added to the values in this table for accurate results. Refer to the specification sheet for your specific RF module(s) for more information.
2. Test data was conducted using C-COR standard efficiency test (334010 Rev C).
3. Maximum load = 2.3A on 24V line, 2.0A on 12V line, and 2.0A on 5V line.



Opti Max2700 Upgrade Power Supply Cables with Ferrite

Opti Max2700 Forward Receiver Specifications

Characteristic	Specification
Optical Specifications	
Optical Wavelength, nm	1290 to 1600
Optical Input Return Loss, dB, min.	45
Equivalent Noise Input, pA/Hz ^{0.5} 1	5.0
Optical Input Range, dBm ²	-3 to 3
Optical Power Threshold Alarm Limits, dBm	User-settable: -10 to 0
RF Specifications	
Impedance, Ohms	75
Frequency Range, MHz	40 to 1002
Slope, dB	± 0.5
Flatness, dB ³	± 0.5
Return Loss, dB min.	16.0
RF Output Level, dBmV, min. ⁴	20.0
Thermal Stability, dB ⁵	± 1.0
Testpoint Specifications	
Output RF Testpoint, dB	-20 ± 1.0
Optical Power Monitor	1V/mW ± 10%
Optical Threshold Testpoint	1V/mW
79 NTSC Channel Performance Specifications @ Recommended Levels, typ.^{6,7}	
Frequency, MHz	1002/870/550/54
Output Level, dBmV	20/20/20/20
Carrier to Noise Ratio, 4MHz, 75 Ohm, dB	60
Composite Triple Beat, -dBc	83
Cross Modulation, per NCTA std., -dB	80
Composite 2IM, -dBc	69
Composite Intermodulation Noise CIN, dB ⁶	82
LED Indicators	
On/Off	Green: RF output on Off: RF output off
Optical Power Threshold	Green: optical input above threshold Off: optical input below threshold
DC Power	Green: DC power okay Off: DC power failure
Powering Requirements	
Supply Voltages, Vbc	24/12/5
DC Current, mA, max.	510/<5
5 Volt Line	550
12 Volt Line	10
24 Volt Line	300
Power Consumption, W, max.	12.25
5 Volt Line	2.75
12 Volt Line	.120
24 Volt Line	.007

Opti Max2700 Forward Receiver Specifications (cont'd)

Characteristic	Specification
Gain Control	
Plug-in PADs	NPB-xxx

Specification Document Number 1503109 Rev B

1. EIN performance at $5\text{pA}/\sqrt{\text{Hz}}$ is to 550 MHz only. From 550 MHz to 1002 MHz degrades to $7\text{pA}/\sqrt{\text{Hz}}$.
2. Circuit resiliency to +5dBm.
3. Flatness is measured with respect to slope.
4. RF output level is 20 dBmV minimum @ 1002 MHz with a -3.0 dBm received power, transmitter OMI of 3.5%.
5. The receiver module is designed to operate in a node application with external ambient temperature ranging from -40 to 60° C.
6. The distortion values listed are for the receiver only. To obtain a particular link performance, combine the listed receiver performance values with the applicable transmitter performance values.
7. Systems operating with digitally compressed channels or equivalent broadband noise from 550 to 1002 MHz at levels 6 dB below equivalent video channels will experience a composite distortion (CIN) appearing as noise in the 54 to 550 MHz frequency spectrum. Distortions are typical with an input of 0 dBm @ 3.5% OMI.

Opti Max2700 CWDM Analog Return Transmitter Specifications

Characteristic	Specification
Optical Specifications	
Output Power, dBm ¹	3 ± 1
Transmitted Wavelength, nm	CWDM Channel ±6.5
Laser Type	Isolated Uncooled DFB
Optical Power Voltage Testpoint	1 V/mW ± 10%
Optical Connector Types	SC/APC, FC/APC, SC/UPC, FC/UPC
LED Indicators	
Optical Power	Green: ≥1.5 mW output; Off: <1.5 mW output
DC Power	Green: DC Power OK; Off: DC power not available
RF Specifications	
Impedance, Ohms	75
RF Bandpass, MHz	5 to 200
Return Loss, dB	-16
RF Testpoint Insertion Loss, dB ²	-20 ± 0.5
Flatness, dB, max. ³	±0.5
Gain Slope, dB, max. ⁴	±0.5
Level Stability Over Temp., dB	±2.5
Reverse Spurious, -dBc	<60
Powering Specifications	
Supply Voltage, VDC	24/12/5 ± 0.5
Current Draw, mA, max.	60/540/5

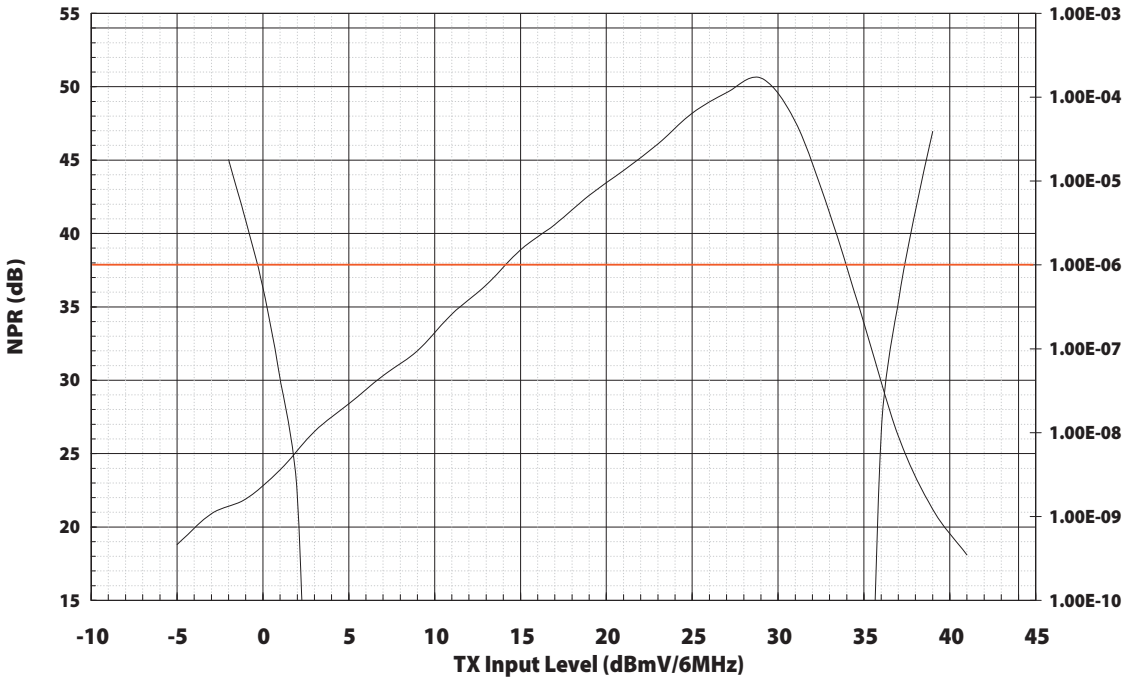
Opti Max2700 CWDM Analog Return Transmitter Specifications (cont'd)

Characteristic	Specification
Performance⁵	
Optimum Transmitter Input Level, dBmV/6MHz	27 dBmV/6MHz (-56 dBmV/Hz)
Optimum RF Testpoint Level, dBmV/6MHz (-20dB)	27 dBmV/6MHz (-56 dBmV/Hz)
NPR/Dynamic Range, dB ^{6,7}	35/15
NPR Peak, dB ⁸	45
BER Dynamic Range, dB	
QPSK@1E-6	45
QAM -16 @1E-6	35
EMS Monitor Status (Laser Shut Down)	
Enabled, V	0 ± 0.25
Disable, V	5 ± 0.25

Specification Document Number 1503013 Rev C

1. Measured at output of bulkhead connector.
2. RF monitor point is -20dB referenced to the transmitter input and accurate from 5 to 100MHz.
3. Flatness is measured with respect to gain slope.
4. Gain slope is measured as a straight line from 5 to 200MHz.
5. All performance specifications measured while installed in an Opti Max2700 node with an optical receiver causing low degradation to performance (~-0.5dB).
6. Measured over 6dB fiber link using 35MHz PRN loading.
7. Typical NPR performance measurements taken at room temperature.

**Opti Max2700 CWDM Analog Return Transmitter, NPR and 16-QAM BER
25 km (~6 dB) Fiber Link**



Opti Max2700 Model Options

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
O	M	2	7	x	x	x	x	-	x	x	x	x	x	x	-	x	x	x	x	x	x	x	-	x	x

1-4 Platform
Opti Max2700

5-6 Series
BE 901e Series Bridger Node, 1 GHz
TE 901e Series Trunk Node, 1 GHz
7A Upgrade Lid, FlexNet 700 Series T/B, 750MHz, 11 dB Cable Loss
8A Upgrade Lid, FlexNet 800 Series, T/B, 750MHz, 12 dB Cable Loss
8B Upgrade Lid, FlexNet 800 Series, T/B 870MHz, 12 dB Cable Loss
9A Upgrade Lid, FlexNet 900 Series, T/B, 750MHz, 11 dB Cable Loss
9B Upgrade Lid, FlexNet 900 Series, T/B, 750MHz, 17 dB Cable Loss
9C Upgrade Lid, FlexNet 900 Series, T/B, 870MHz 18dB Cable Loss
EB Upgrade Lid, FlexNet 901e Series, Brdgr, 1 GHz, 23 dB, Cable Loss
ET Upgrade Lid, FlexNet 901e Series, Trnk, 1 GHz, 13 dB Cable Loss

7 Spacing	
U None	a
5 32dB	b
8 33dB	c
P 43dB	d
<i>a</i> Must choose when selecting "7A, 8A, 8B, 9A, 9B, 9C, EB, ET" in #5-6 block, Series. <i>b</i> 18dB factory equalization. <i>c</i> 13dB factory equalization. <i>d</i> 23dB factory equalization.	

8 Frequency Split	
P None	a
J 42/54MHz	
<i>a</i> Must choose when selecting "7A, 8A, 8B, 9A, 9B, 9C, EB, ET" in #5-6 block, Series.	

9-10 Level Control	
GR None	a
K0 427.25MHz NTSC TV	
KB 439.25MHz NTSC TV	
KC 451.25MHz NTSC TV	
KL 423.25MHz NTSC TV	
KN 471.25MHz NTSC TV	
L0 499.25MHz NTSC TV	
L4 495.25MHz NTSC TV	
MB 645.00MHz QAM	
RM 711.00MHz QAM	
SD 609.00MHz QAM	
<i>a</i> Must choose when selecting "7A, 8A, 8B, 9A, 9B, 9C, EB, ET" in #5-6 block, Series.	

11 Return	
A None	a
6 18dB active gain	b
7 18dB active gain with return switches	b, c
<i>a</i> Must choose when selecting "7A, 8A, 8B, 9A, 9B, 9C, EB, ET" in #5-6 block, Series. <i>b</i> Includes internal return testpoints. <i>c</i> Select "A" or "B" in #23 block, Status Monitoring.	

12 Output Configuration	
D None	a
E Bridger with two bridger outputs—user-configurable to 4 outputs with -25 dB Internal testpoints	b, d
G Bridger with two bridger outputs—user-configurable to 4 outputs with -20 dB External testpoints	c, d
N Bridger with two bridger outputs—user-configurable to 4 outputs with -20 dB Internal testpoints	b, d
R Bridger with two bridger outputs—user-configurable to 4 outputs with -25 dB External testpoints	c, d
F Trunk with two bridger outputs—user-configurable to 4 outputs with -20 dB Internal testpoints	b, d
H Trunk with two bridger outputs—user-configurable to 4 outputs with -20 dB External testpoints	c, d
P Trunk with two bridger outputs—user-configurable to 4 outputs with -25 dB Internal testpoints	b, d
S Trunk with two bridger outputs—user-configurable to 4 outputs with -25 dB External testpoints	c, d
<i>a</i> Must choose when selecting "7A, 8A, 8B, 9A, 9B, 9C, EB, ET" in #5-6 block, Series. <i>b</i> Select "C", "K", or "O" in #10 block, Housing. <i>c</i> Select "F", "L", or "O" in #10 block, Housing. <i>d</i> Plug-in splitters and directional couplers must be ordered separately.	

13 Powering and External Surge Protection	
E 90V High Efficiency Power Supply	a
1 90V High Efficiency Power Supply with External Surge Protection Circuit	a
<i>a</i> 100W.	

14 Housing		
0	None	a
C	6-Port Flex Max, 1 GHz, with internal testpoints	b
F	6-Port Flex Max, 1 GHz, with external testpoints	c
K	6-Port Flex Max, 1 GHz, with internal testpoints and four 90° access ports	b
L	6-Port Flex Max, 1 GHz, with external testpoints and four 90° access ports	c
a) Select "1" in #15 block, Housing Finish . Required when ordering module only. b) Select "E, N, F, or P" in #12 block, Output Configuration . c) Select "G, R, H, or S" in #12 block, Output Configuration . Forward external testpoints only.		

15 Housing Finish		
1	Standard	a
4	Corrosion protected	
a) Required when ordering module only.		

16 Forward Receiver		
0	None	a
A	Single receiver	
a) Must select "A" in #18 block, Forward Receiver Connector .		

17 Forward Receiver Connector		
A	None	a
B	FC/APC	
C	SC/APC	
D	FC/UPC	
E	SC/UPC	
a) Must select "0" in #17 block, Forward Receiver .		

18 Forward Configuration		
1	Non-redundant (Single receiver)	

19-20 Return Transmitter		
00	None	a
0x	Select 1 transmitter wavelength from the list below	

Return Transmitter Wavelength (please specify)		
L	1471 nm CWDM Transmitter	b
M	1491 nm CWDM Transmitter	b
a) Must select "A" in #21 block, Return Transmitter Connector . b) Must select option in #21 block, Return Transmitter Connector .		

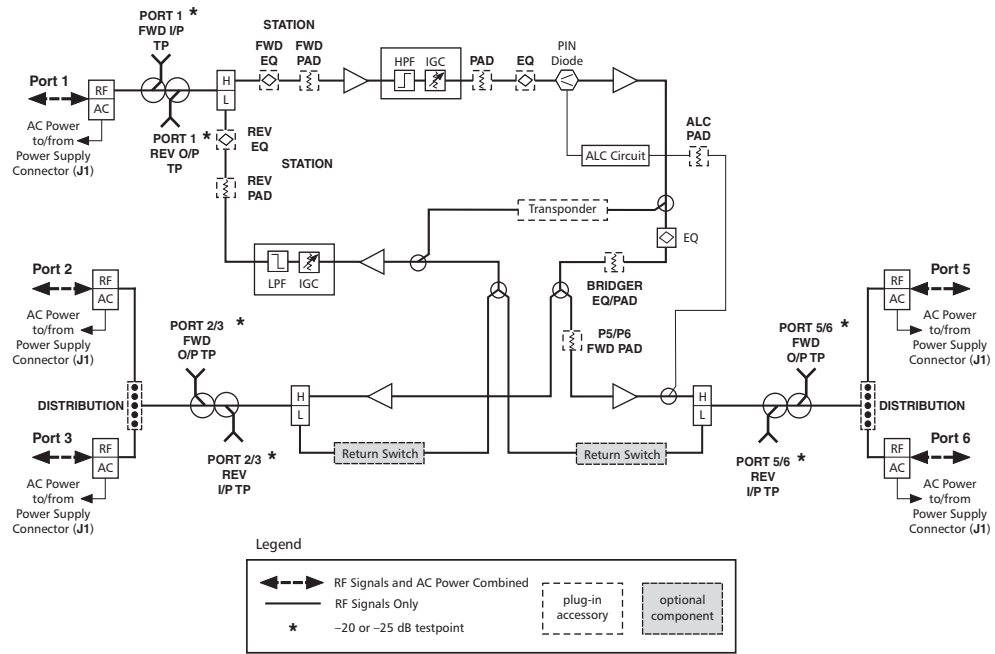
21 Return Transmitter Connector		
A	None	a
B	FC/APC	
C	SC/APC	
D	FC/UPC	
E	SC/UPC	
a) Must select "00" in #19-20 block, Return Transmitter .		

22 Return Configuration		
1	Non-redundant (Single transmitter)	

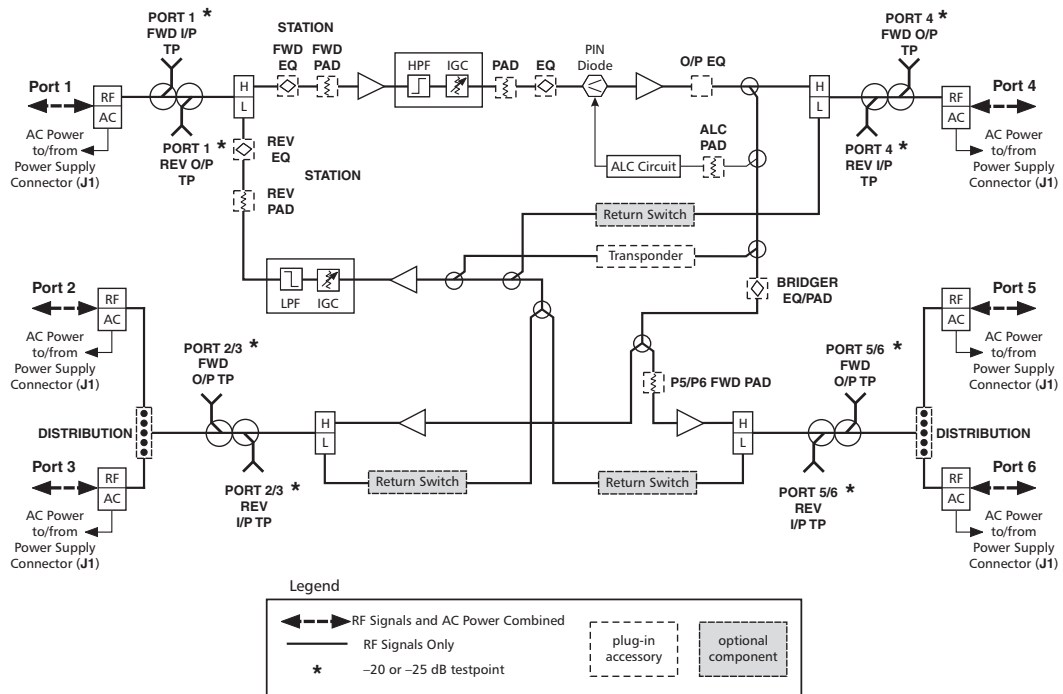
23 Status Monitoring		
0	None	
b) Select "7" in #11 block, Return . This is a frequency-agile transponder.		

24 Future Option		
0	None	

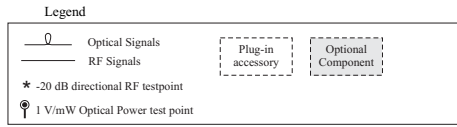
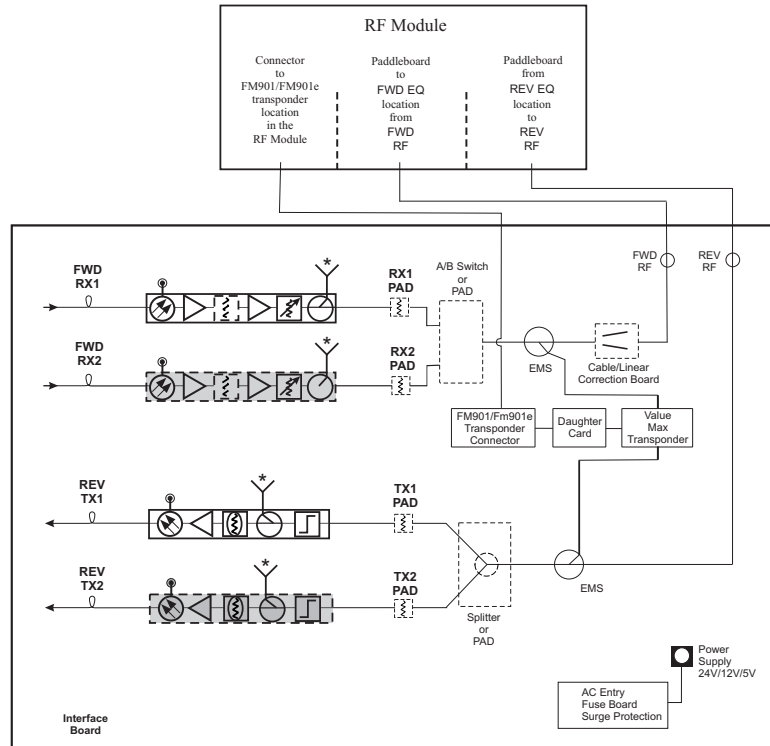
Opti Max2700 Node—RF Module and Functional Block Diagrams



901e Series Bridger Amplifier

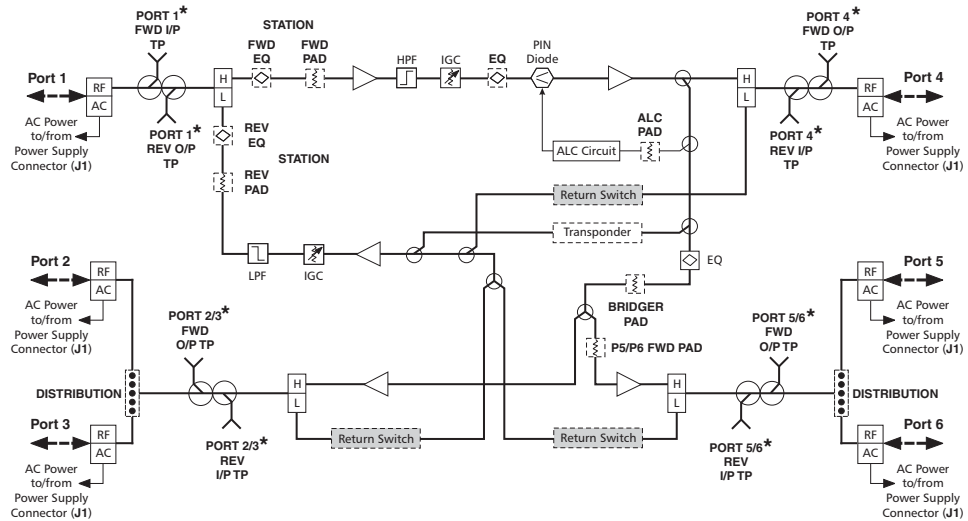


901e Series Trunk Amplifier



Opti Max2700 Optical Lid

Opti Max2700 Lid Upgrade—RF Block Diagrams



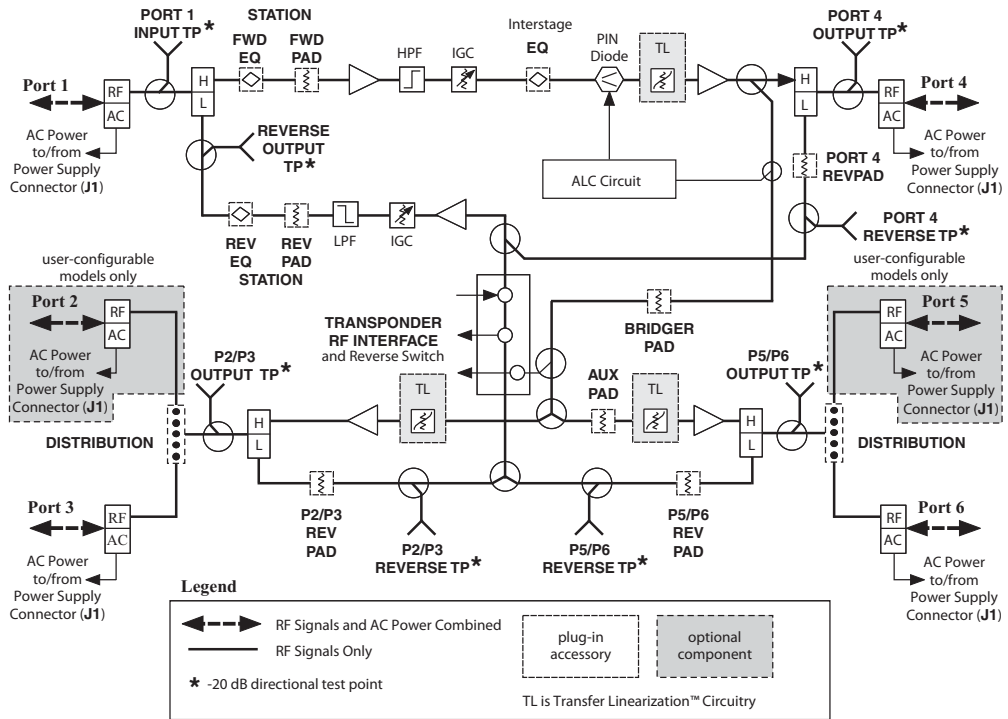
Legend

- RF Signals and AC Power Combined
- RF Signals Only
- * -20 dB testpoint
- plug-in accessory
- optional component

Notes:

- Return switches are optional, but are not user configurable. They must be chosen at the time of ordering and are installed at the factory during production.
- Only configurable bridge port is available.

901 Series Trunk Amplifier

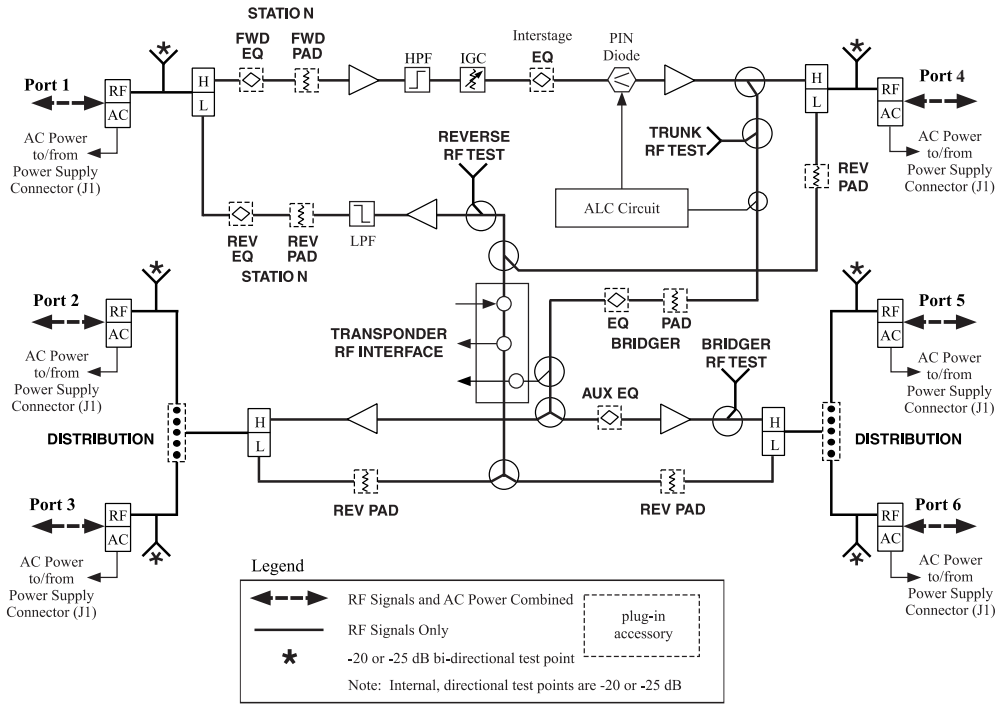


Legend

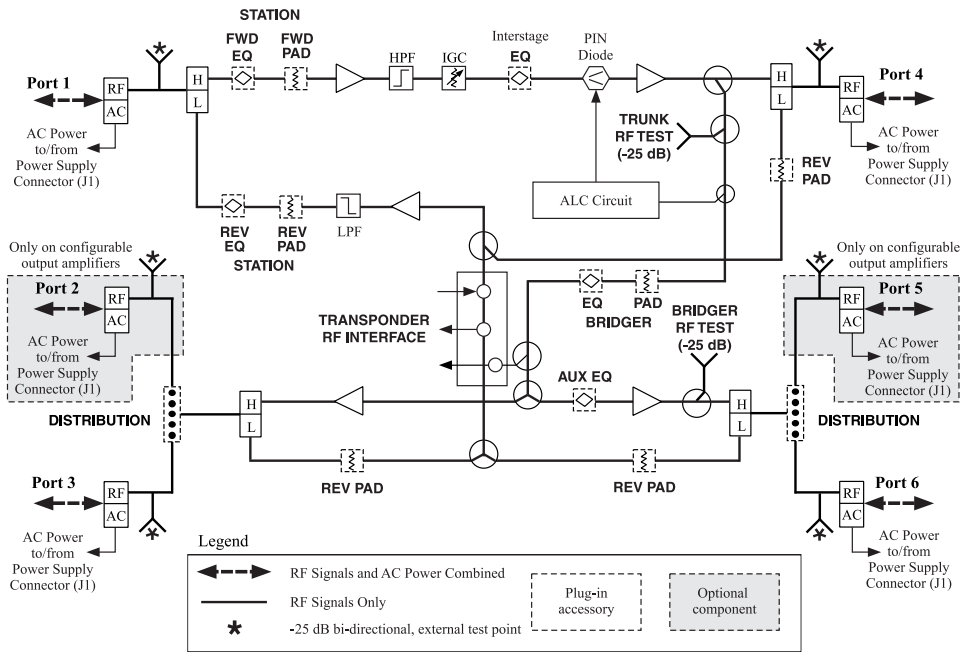
- RF Signals and AC Power Combined
- RF Signals Only
- * -20 dB directional test point
- plug-in accessory
- optional component

TL is Transfer Linearization™ Circuitry

900 Series Trunk Amplifier

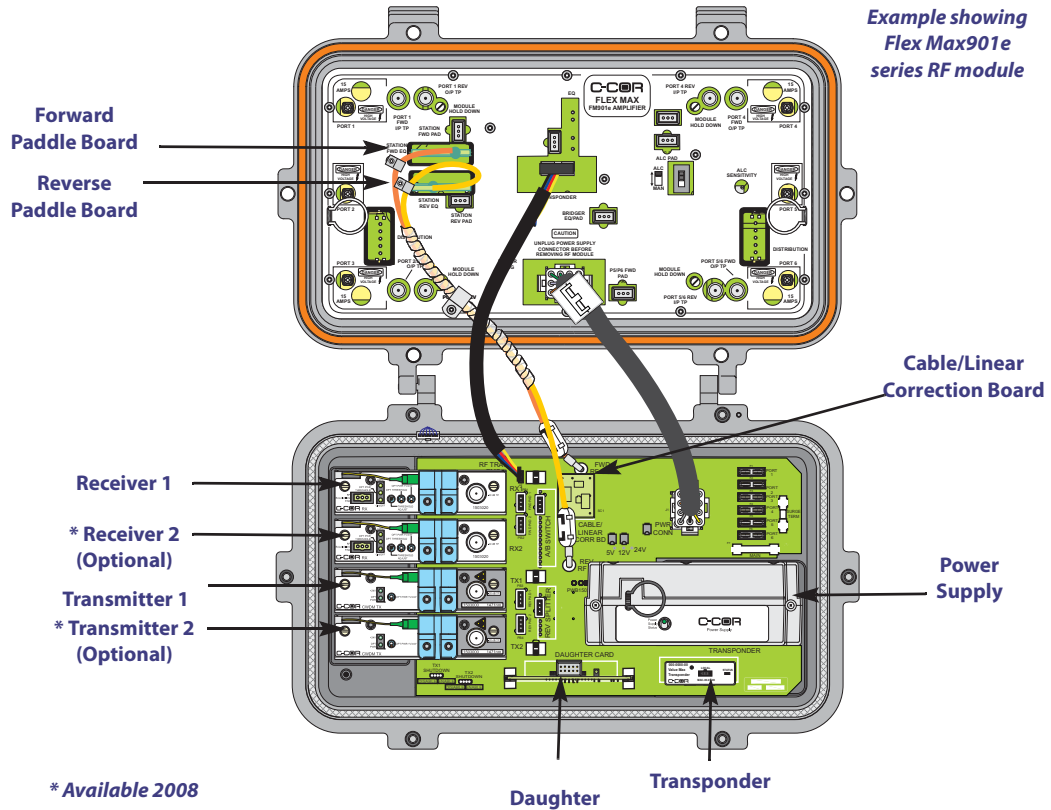


800 Series Trunk Amplifier



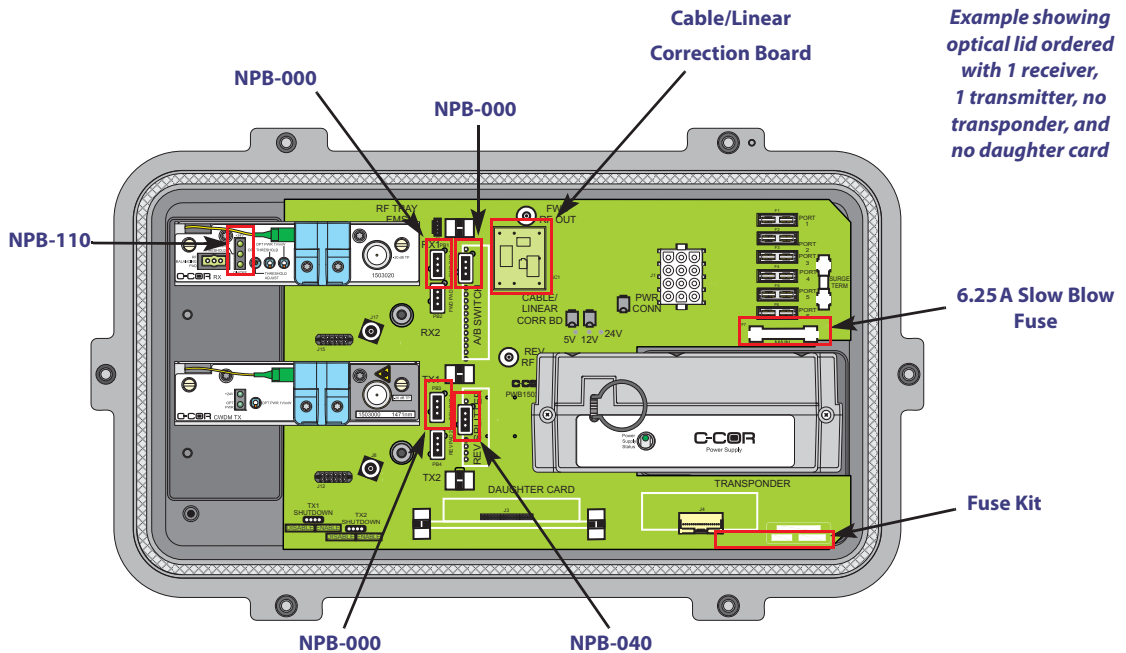
700 Series Trunk Amplifier

Opti Max2700 Identification



* Available 2008

Opti Max2700 Lid Upgrade—Factory-Shipped Accessories



Opti Max2700 Trunk/Bridger Node Accessory Reference

Description	Part Number
Forward Receiver	1503020-00x
CWDM DFB Transmitter	150300x-00x
Power Supply	1502869-001
INTERSTAGE PAD (0dB)	NPB-000
EQ	SEQ-xxx
O/P EQ	NPB-xxx
ALC PAD	NPB-xxx
Bridger EQ/PAD (9dB)	GEQL-1GHz-090 or GEQC-1GHz-090
P5/P6 FWD PAD (0dB)	NPB-000
Distribution ports (Strip Lines)	
SS-1000-2 (splitter)	162399-01
SDC-1000-8 (directional coupler)	162400-01
SDC-1000-12 (directional coupler)	162400-02
Forward Equalizer	GEQL-xxx or SEQ-1G-xx
Forward PAD Attenuator	NPB-xxx
Return Equalizer	MEQ-42 MEQT-42
Return PAD Attenuator	NPB-xxx
Plug-ins	
14 dB output tilt	GEQC-1GHz-050
15.5 dB output tilt	GEQC-1GHz-070

Opti Max2700 Node Physical Specifications

Characteristic	Measurement
Height	10.5 inches (26.7 cm)
Width	16.0 inches (40.6 cm)
Depth	9 inches (22.9 cm)
Weight (uncrated)	21.56 pounds (9.78 kg)
Weight (crated)	27.28 pounds (12.37 kg)

Approximate weight for a fully-configured node built with 1 forward receiver, 1 return transmitter, power supply, and appropriate accessories.

Optical Lid Accessory Reference

Description	Part Number
Forward Receiver	1503020-00x
CWDM Isolated DFB Transmitter	150300x-00x
Powering Accessories	
Power Supply	1502869-001
10" Power Supply Cable; 9-pin to 12-pin; 700 Series	1503299-002
OR	
10" Power Supply Cable; 12-pin to 12-pin; 800, 900, 901, 901e Series	1503299-001
Surge Terminator	1500390-003
3 AG 6.25A 250V Slow Blow Fuse	FG0010
Fuse/Screw Kit (1 kit included with each lid)	1503110-001
6 Auto Blade 30A Fuses	FG0032
2 6-32 x 3/8 Philips Pan Head SMS	HS0010
1 Paddle Board Nylon Cable Clamp	1503189
NPB PADS	NPB-000 through NPB-020
Cable/Linear Board (appropriate board per configuration)	
901/901e Series Trunk CLCB—13 dB Cable 1 GHz	1503185-005
901/901e Series Bridger CLCB—23 dB Cable 1 GHz	1503185-006
900 Series CLCB—18 dB Cable 870MHz	1503185-001
700 Series CLCB—11 dB Cable 750MHz	1503185-002
800 Series CLCB—12 dB Cable 750MHz	1503185-003
800 Series CLCB—12 dB Cable 870MHz	1503185-004
900 Series CLCB—17 dB Cable 750MHz	1503185-007
900 Series CLCB—11 dB Cable 750MHz	Use 1503185-002
Hinge Pin Extraction Tool	MX0783

Opti Max2700 Optical Lid Physical Specifications

Characteristic	Measurement
Height	10.3 inches (26.2cm)
Width	16.0 inches (40.6cm)
Depth	5.9 inches (15.0cm)
Weight (uncrated)	12 pounds (5.5kg)

Approximate weight for a fully-configured lid built with 1 forward receiver, 1 return transmitter, power supply, and appropriate accessories.

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