

# CX4R-D and CX4R-DG

The CX4R is a compact amplifier and the amplifier stages are based on extremely high performance GaN solution that makes the usable gain range especially wide and allows high output level. Alignment can be made using electrical circuits that are controlled with push buttons. A fixed high gain return amplifier circuit is fixed on the motherboard. The amplifiers are remote powered. In addition to RF ports, power can also be supplied through a separate connector at the side of the PSU. It also features a bypass port next to the input port. The amplifier comes in two variants, one is a group amplifier CX4R-DG and another is an end amplifier CX4R-D.

## CX4R-D an CX4R-DG features:

- 1.8 GHz forward path
- Up to 492 MHz return path
- Push buttons and a display for easy alignment
- Return Follows Forward
- Remote Ingress Switching
- Power Save mode
- Cable Simulator
- Bypass port at input



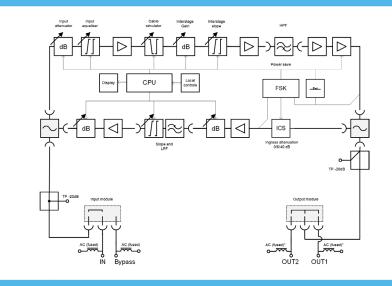
## DISTRIBUTION AMPLIFIERS / CX4R-D AND CX4R-DG

Downstream signal path Upstream signal path				
Gain	51 dB <sup>(2)</sup>	Gain	32 dB <sup>(2)</sup>	
Frequency range	2581794 MHz	Frequency range	5492 MHz	
Return loss	≥ 18 dB <sup>(3)</sup>	Return loss	≥ 18 dB	
Input attenuator	020 dB <sup>(4)</sup>	Output attenuator	020 <sup>(4)</sup>	
Input equalizer	024 dB <sup>(4)</sup>	Interstage attenuator	020 dB <sup>(4)</sup>	
Cable simulator	0 dB/15 dB	Equalizer	020 dB <sup>(4)</sup>	
Interstage attenuator	020 dB <sup>(4)</sup>	Ingress Control Switches	0 dB/-6 dB/-45 dB <sup>(6)</sup>	
Interstage equalizer	020 dB <sup>(4)</sup>	Flatness	±1 dB <sup>(5)</sup>	
Flatness	±1 dB <sup>(5)</sup>	Noise figure	9 dB	
Noise figure	9 dB	Total Composite Power	61 dBmV	
Total Composite Power	68 dBmV			
GENERAL SPECIFICATIONS				
Connectors	Input and output: 5/8" threads Test points: F connector			
Test points	20 dB input and output			
Impedance	75 Ω	Operating temperature	-20+65 °C	
Power supply	3090 VAC	Class of enclosure	IP67	
Power consumption	< 25W	Safety	EN/IEC 60728-11	
Housing	Die-cast Zinc or Aluminum	EMC	EN 50083-2	
Dimensions	25 x 21 x 11 cm (w x h x d)	ESD	2 kV	
Weight	2 kg	Surge	2 kV	

### **DISTRIBUTION AMPLIFIERS / CX4R-D AND CX4R-DG**

(1) Typical values.

- (2) Nominal gain in room temperature.
- (3) The limiting curve is defined at 204 MHz -1.5 dB / octave. Return loss is always > 13 dB.
- (4) Electronic circuit with 0.5 dB step size.
- (5) Over the entire temperature range.
- (6) Ingress switching requires an optional module.



ORDERING INFORMATION		
CX4R204D	End amplifier, 2 x 204/258 MHz diplexers, upstream 204 MHz module, downstream 258 MHz module, 0 dB input module, output splitter module, 3A fuse at input port, 2 x IECM14 5/8" adapter, 5/8" plug at bypass port.	
CX4R396D CX4R492D	Same as CX4R204D but with 396/492 MHz diplex filters and upstream and downstream modules. Same as CX4R204D but with 492/606 MHz diplex filters and upstream and downstream modules.	
CX4R204DG	Group amplifier, 2 x 204/258 MHz diplexers, upstream 204 MHz module, downstream 258 MHz module, 0 dB input module, output splitter module, 10 A fuses at input and output ports, IECM 14 5/8″ adapter, 5/8″ plug at bypass port.	
CX4R396DG CX4R492DG	Same as CX4R204DG but with 396/492 MHz diplex filters and upstream and downstream modules. Same as CX4R204DG but with 492/606 MHz diplex filters and upstream and downstream modules.	
OPTIONAL ACCESSORIES		
204/258 MHz kit	2 x diplexer 204/258 MHz, upstream module 204 MHz and downstream module 258 MHz	
396/492 MHz kit	2 x diplexer 396/492 MHz, upstream module 396 MHz and downstream module 492 MHz	
492/606 MHz kit	2 x diplexer 492/606 MHz, upstream module 492 MHz and downstream module 606 MHz	
CXM1E	Minimum loss input/output module	
CXM5E	Splitter input/output module	
CXM8E	8 dB tap input/output module	
CXM14E	14 dB tap input/output module	
CXT series	Remote control modules, please contact us for more details.	



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Trunk and Distribution Amplifier CX4\_240506

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