



RF Amplifiers

DISTRIBUTION AMPLIFIER CX3R-DG

The CX3R-DG is a compact dual output amplifier with 1.2 GHz frequency range in the downstream and up to 204 MHz in the upstream. The amplifier stage is based on high-performance GaN which ensures low power consumption. Adjustments use electronic controls, eliminating the need for plug-in attenuators or equalizers. The CX3R-DG has a bypass port at input, remote powering at the outputs and even includes an FSK slot for optional remote control of ingress switches and power save.

CX3R-DG features

- GaN amplifier technology
- Diplexers for 65/85/204 MHz upstream
- Bypass port at the input
- Remote power at all ports
- Optional: remote ingress switching
- Optional: power save
- Block diagram inside
- F-female test points
- Socket head screws
- Open bracket one side for easy one-hand installation
- Hinge clip for easy removal of lid
- AMP connector at side connected to remote power line

One of Teleste's superior performance products
designed for easy installation and reliability.

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DISTRIBUTION AMPLIFIER / CX3R-DG

TECHNICAL SPECIFICATIONS: DOWNSTREAM ⁽¹⁾			
Frequency range	85...1218 MHz	Flatness	± 0.75 dB
Return loss	18.5 dB @ 80 MHz -1.5 dB/oct.	Mid-stage gain	0...12 dB
Gain	44 dB	Mid-stage slope	0...14 dB
Input attenuator control range	0...20 dB	Noise figure @ 1218 MHz, flat, high gain	8.5 dB
Input equalizer control range	0...25 dB	Test point	20 dB
Cable simulator	0 / -13 dB	Umax (138 QAM channels, 13 dB sloped)	109 dBμV
TECHNICAL SPECIFICATIONS: UPSTREAM ⁽¹⁾			
Frequency range	5...204 MHz	Gain control range (output)	0...15 dB
Return loss	14.5 dB @ 5...15 MHz 20 dB @ 40 MHz -1.5 dB/oct.	Slope control range	0...16 dB
Gain	28 dB	Noise figure @ high gain	9.5 dB
Gain control range (interstage)	0...15 dB	Test point	20 dB
GENERAL SPECIFICATIONS ⁽¹⁾			
Supply Voltage	28...90 VAC/50 Hz	Dimensions (h x w x h)	220 x 210 x 80 mm
Power Consumption	18 W	Test Point connector	F-female
Max. current	7 A	EMC compatibility	EN 60728-2
Hum	70 dB	Safety	EN 60728-11
Operating temperature	- 20 ° to + 65 °C	Surge	2 kV, IEC 60728-3
Class of enclosure	IP 67	ESD	2 kV
NOTES			

(1) Typical values. Please contact us for detailed conditions.

BLOCK DIAGRAM	IMAGERY

ORDERING INFORMATION	
CX3R065DG	Installed: 2 x CXD065, 1 x 5/8 sealing adapter, 1 x CXM1 input jumper, 1 x CXM4 output splitter, customer specific 10A fuses at input and both outputs.
CX3R085DG	Same as CX3R065DG, but with 2x CXD085 installed.
CX3R204DG	Same as CX3R065DG, but with 2x CXD204 installed.
CXT001	FSK module for optional RIS (Remote Ingress Switching) and power safe in combination with headed RIS controller HDM155. Carrier frequency typically 253 MHz.
CXT002	Manual RIS controller for on-site setting the CX3R-DG ingress attenuators in case HDM155 control is not available.

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