

CX3 series - 1218/204 MHz

DISTRIBUTION  
AMPLIFIERS

## CX3-D and CX3-DG

The CX3-D/CX3-DG are compact dual-output amplifiers with a 1.2 GHz downstream frequency range and up to 204 MHz in the upstream. The amplifier stage is based on high-performance GaN, ensuring low power consumption. All adjustments use electronic controls, eliminating the need for plug-in attenuators or equalizers. The units feature an input bypass port, remote powering at the outputs, and include an FSK slot for optional remote control of ingress switches and power-save functionality.

### CX3-D and CX3-DG features:

- GaN amplifier technology
- Diplexers for 65/85/204 MHz upstream
- Bypass port at the input
- Remote powered
- 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.

**TELESTE**

# CX3-D – CX3-DG

## 1.2 GHz UNIVERSAL AMPLIFIERS

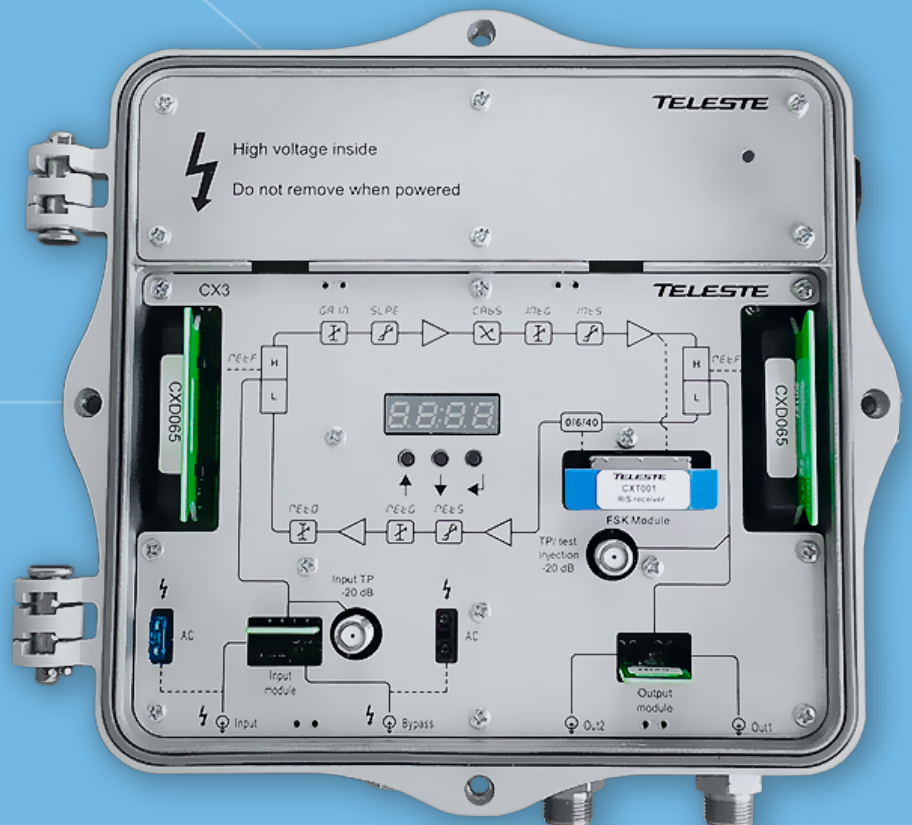
Designed for operators who value high performance, cost efficiency, and easy installation, the CX3-D and CX3-DG are robust, well-performing 1.2 GHz all-round amplifiers. Using the latest GaN amplifier technology, the CX3 series delivers high output levels (U<sub>max</sub> 109 dB<sub>μ</sub>V, 138 channels) and a wide gain range.

### Smooth migration

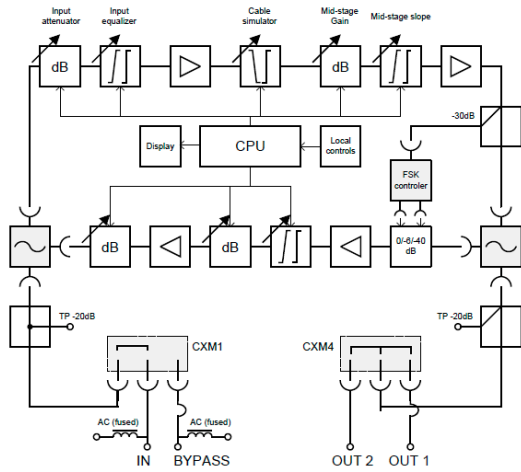
The amplifiers can be used in 860 MHz, 1 GHz, and 1.2 GHz networks, while the return path supports frequencies up to 65 MHz, 85 MHz, and 204 MHz for flexible deployment.

### Local user interface

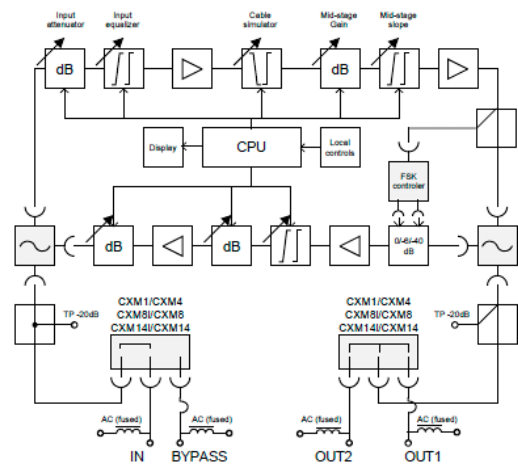
The series features a local user interface consisting of a four-digit 7-segment display, three push buttons, and a block diagram inside the units for easy alignment.



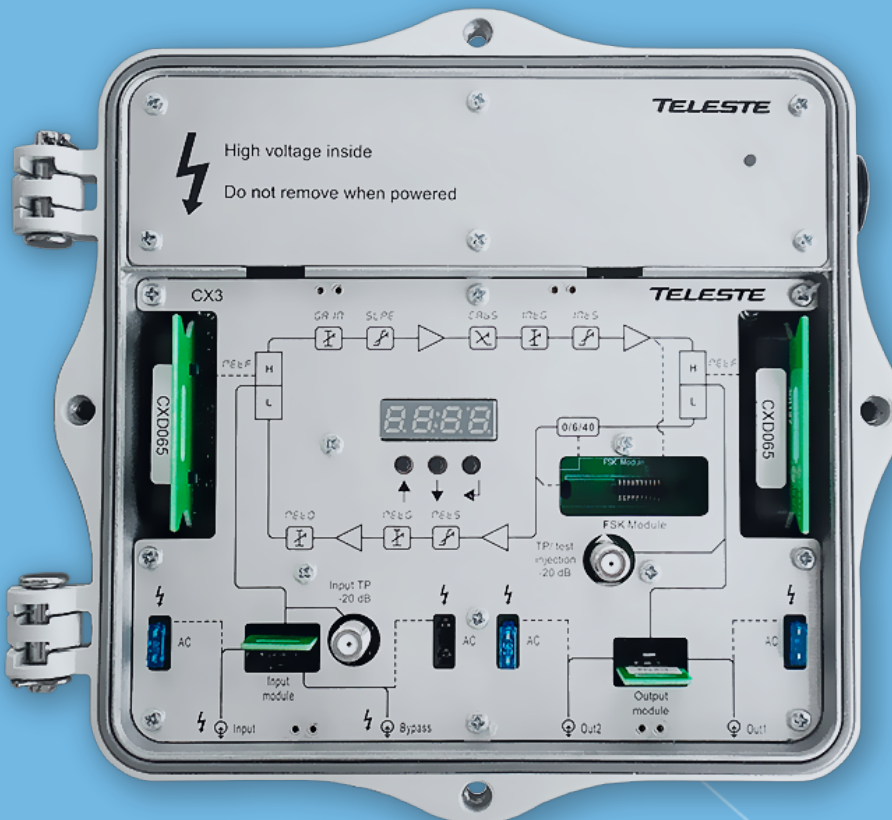
# CX3-D



CX3-D block diagram



CX3-DG block diagram



# CX3-DG

## CX3 Efficiency Powered by GaN

In the CX3 series, GaN technology cuts power use, reduces heat, and delivers high output without increasing energy costs.

## Energy-efficient performance

With a housing protection class of IP67, the CX3 amplifiers are engineered for dependable operation in challenging environments.

## CX3-D – CX3-DG / DISTRIBUTION AMPLIFIERS

TECHNICAL SPECIFICATIONS <sup>(1)</sup>			
Downstream signal path		Upstream signal path	
Frequency range	85...1218 MHz	Frequency range	5...204 MHz
Gain	44 dB	Gain	28 dB
Return loss	18 dB	Return loss	18 dB
Input attenuator	0...20 dB	Input attenuator	-
Input equalizer	0...20 dB	Interstage attenuator	0...15 dB
Cable simulator	0 dB/13 dB	Output attenuator	0...15 dB
Interstage attenuator	0...12 dB	Equalizer	0...16 dB
Interstage equalizer	0...14 dB	Noise figure	9.5 dB
Noise figure	8.5 dB	U <sub>max</sub> (in)	> 72 dBμV
U <sub>max</sub>	109 dBμV		
GENERAL <sup>(1)</sup>			
Connectors	External: IEC connector, 5/8" thread Test points: F female	Dimensions	22 × 21 × 8 cm (w × h × d)
Test points	20 dB	Operating temperature	-20...+65 °C
Supply voltage	28...90 VAC	ESD	2 kV
Power consumption	18 W	Surge	≥ 2 kV
Weight	2.1 kg		
NOTES			
(1) Typical values, please contact a Teleste representative for further information.			
ORDERING INFORMATION			
<b>CX3R065D</b>	End amplifier, 2 x 65/85 MHz diplexers, CXM4 at output, IEC connectors at outp, remote power supply, 3 A fuse at input	<b>CX3R065DG</b>	Group amplifier, 2 x 65/85 MHz diplexers, CXM4 at output, no connectors, remote power supply, 10 A fuses at outputs
<b>CX3R085D</b>	Same as above, but with 2 x 85/105 MHz diplexers	<b>CX3R085DG</b>	Same as above, but with 2 x 85/105 MHz diplexers
<b>CX3R204D</b>	Same as above, but with 2 x 204/258 MHz diplexers	<b>CX3R204DG</b>	Same as above, but with 2 x 204/258 MHz diplexers
OPTIONAL ACCESSORIES			
<b>CXM1</b>	Minimum loss input/output module.		
<b>CXM4</b>	Two-way splitter input/output module.		
<b>CXM8</b>	8 dB tap input/output module.		
<b>CXM8i</b>	8 dB tap input module		
<b>CXM14</b>	14 dB tap output module		
<b>CXM14i</b>	14 dB tap input module		
<b>CXD065</b>	Diplex filter 65/85 MHz		
<b>CXD085</b>	Diplex filter 85/105 MHz		
<b>CXD204</b>	Diplex filter 204/258 MHz		
<b>CXT001</b>	RIS receiver, to be used with HDM155 controller		
<b>CXT002</b>	Ingress switching local service tool		
<b>KPA002-5/8</b>	Power inserter adapter with cord		



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CX3-D – CX3-DG\_260303

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