



# GNCMOD, GNDCMOD, GNTCMOD, GNQCMOD QAM Modulators

## CHAMELEON GNxCMOD DVB-C, QAM J.83 Annex B, QAM J.83 Annex C

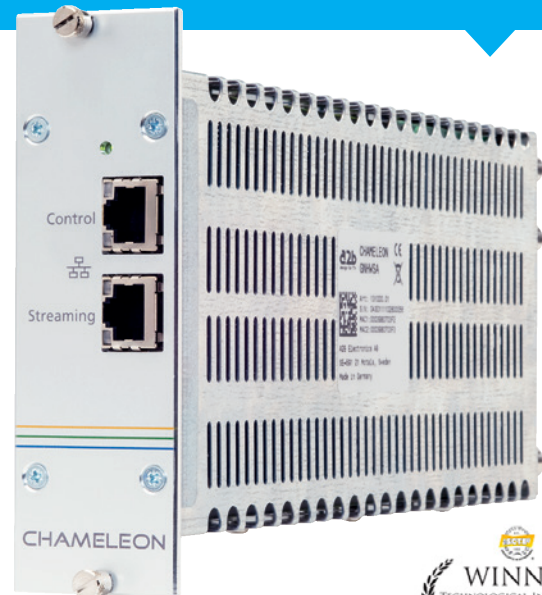
The CHAMELEON QAM modulators are enabled by the SW options GNCMOD (single DVB-C, QAM J.83 Annex B, QAM J.83 Annex C out), GNDCMOD (dual DVB-C, QAM J.83 Annex B, QAM J.83 Annex C out), GNTCMOD (triple DVB-C, QAM J83 Annex C out) and GNQCMOD (quadruple DVB-C, QAM J83 Annex C out). Complying with the DVB-C EN 300 429, IUT J.83 Annex A, B, C, the CHAMELEON QAM modulators gives professional DVB-C, QAM J83 Annex B, QAM J.83 Annex C outputs for all types and sizes of cable networks.

- UP TO 4 DVB-C OR QAM J.83 ANNEX C OUT IN ONE CHAMELEON
- UP TO 2 QAM J.83 ANNEX B OUT IN ONE CHAMELEON
- ALL COMMON QAM MODES
- NORMAL AND INVERTED QAM SPECTRUM
- OUTPUT FREQUENCY 40-860 MHZ
- HIGH OUTPUT LEVEL
- ADJACENT CHANNELS



**Any video from any source to any device**

The CHAMELEON product line is the first ever to cover almost every need for Cable-TV and SMATV distribution with only one hardware. The different inputs and outputs are defined by software and hardware options and all software options can be updated any time.



Graphical User Interface for easy set up of complex systems. Simple handling of service remultiplexing and automatic PSI/SI regeneration. Each CHAMELEON contains an embedded web server for management and control. Standard web browsers (Explorer, Mozilla etc.) are supported.

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## General information about SW options

A SW option purchased for a CHAMELEON can only be used in this specific CHAMELEON. When ordering a SW option for a specific CHAMELEON, the serial number of the CHAMELEON must be stated. SW options can be ordered together with the CHAMELEON HW modules, or separately to an existing CHAMELEON module.

## Technical Information

DVB-C (QAM J.83 Annex A) Modulation	
Number of modulators	Up to 4 DVB-C outputs
QAM modes	16, 32, 64, 128 and 256 QAM
Symbol rate	2.4-13.6 MBaud
Output frequency	40-860 MHz
Output level (typical)	105 dB $\mu$ V 1 channel, 102 dB $\mu$ V 2 channels, 99 dB $\mu$ V 3 channels, 96 dB $\mu$ V 4 channels
MER at RF out (typical)	44 dB for 256-QAM
Spur. suppression	> 60 dBc
Channel bonding	All outputs within 40 MHz band (5 channels @ 8 MHz)
Compliance	DVB-C (EN 300 429)

QAM J.83 Annex B Modulation	
Number of modulators	Up to 2 QAM J.83 Annex B outputs
QAM modes	64QAM and 256QAM
Meta data support	DVB-PSI/SI
Symbol rate	5.06 MBaud (64QAM), 5.36 MBaud (256QAM)
Output frequency	40-860 MHz
Output level (typical)	105 dB $\mu$ V 1 channel, 102 dB $\mu$ V 2 channels
MER at RF out (typical)	44 dB for 256-QAM
Spur. suppression	> 60 dBc
Channel bonding	All outputs within 40 MHz band (5 channels @ 8 MHz)
Compliance	ITU J.83 Annex B, Level 2 for 6 MHz bandwidth

QAM J.83 Annex C Modulation	
Number of modulators	Up to 4 QAM J.83 Annex C outputs
QAM modes	64QAM and 256QAM
Meta data support	DVB-PSI/SI
Symbol rate	2.4-13.6 MBaud
Output frequency	40-860 MHz
Output level (typical)	105 dB $\mu$ V 1 channel, 102 dB $\mu$ V 2 channels, 99 dB $\mu$ V 3 channels, 96 dB $\mu$ V 4 channels
MER at RF out (typical)	44 dB for 256-QAM
Spur. suppression	> 60 dBc
Channel bonding	All outputs within 40 MHz band (5 channels @ 8 MHz)
Compliance	ITU J.83 Annex C

SW options	Article number	Description
GNCMOD	71747	Single DVB-C, QAM J.83 Annex B, QAM J.83 Annex C out
GNDCMOD	71748	Dual DVB-C, QAM J.83 Annex B, QAM J.83 Annex C out
GNTCMOD	71845	Triple DVB-C, QAM J.83 Annex C out, dual QAM J.83 Annex B out
GNQCMOD	71846	Quad DVB-C, QAM J.83 Annex C out, dual QAM J.83 Annex B out



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