

Casa Systems Downstream DS8x192 Module

Casa Systems' C100G award winning CCAP solution combines CMTS and MPEG video Edge-QAM in a high density, high availability 13 RU platform. Deployed by some of the world's leading service providers, the C100G's software defined architecture, industry leading density, and integrated video capabilities provide a clear competitive edge in the delivery of ultra-broadband services.

Casa has long been the leader in CCAP downstream channel density, owing to our unique design approach. The industry's first full DOCSIS® 3.1 CCAP line-card, the DS8x192, is deployable in either the C100G or the smaller C40G. The DS8x192 module not only supports DOCSIS 3.1 but for service provider flexibility, it also supports DOCSIS 3.0 and EuroDOCSIS 3.0 standards.



Feature	Benefit
Full DOCSIS 3.1 OFDM Spectrum Support	Full DOCSIS 3.1 support - OFDM (192MHz) support allows service providers to deliver the faster downstream speeds needed to meet customer and competitive demands
Density	8 physical RF F-connector ports up to two 192 MHz OFDM channels, along with multiple SC-QAM channels available today
Complete DOCSIS Unit	Complete DOCSIS downstream unit includes DOCSIS downstream MAC and PHY
Affordability	Industry's lowest cost per DOCSIS 3.0/3.1 channel for this class of product. Delivers economical solution for high bandwidth multimedia applications.

Highlights

Full DOCSIS 3.1 Support

Up to two (2) 192 MHz OFDM channels along with multiple SCQAM channels available today

Complete DOCSIS downstream unit includes DOCSIS downstream MAC and PHY

Cost Effectiveness

Industry's lowest cost per DOCSIS 3.0 / 3.1 channel for this class of product, delivering an economical solution for high bandwidth, multi-media applications

Technical Specifications

Standards Supported	DOCSIS 3.1, EuroDOCSIS 3.0, DOCSIS 3.0
QAM Modulations	Annex A, B or C
DOCSIS 3.1 Modulations	QPSK, BPSK, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096 QAM
Channel Width	6 to 8 MHz tunable
Data Rates (DOCSIS)	27 Mbps @64 QAM 38 Mbps @ 256 QAM
Data Rates (EuroDOCSIS)	36 Mbps @64 QAM 51 Mbps @ 256 QAM
Frequency Range	108 MHz - 1218 MHz
Frequency Step Size	1 Hz
I/O Connector Type	F-connector
Maximum Output Power (sum of all channels)	60 dBmV @ 1 ch / port 59 dBmV @ 2 ch / port 58 dBmV @ 4+ ch / port
Output step size	0.1 dB
Output accuracy	+/- 3 ppm
Return Loss Accuracy	50 - 870 MHz, 14 dB 870 - 1218 MHz, 10 dB
Modulation Error Rate	43 dB (equalized)
Wideband Noise	- 73 dBc
Total Power	320W