

Casa Systems Upstream US16X8 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 upstream channel density, owing to our unique design approach. Our US16x8 module is the densest upstream DOCSIS® 3.1 line-card in the industry and is now available with 32-port RF I/O, an alternative to the original 16-port version.

The US16x8 DOCSIS module is a complete DOCSIS upstream unit that includes RF burst receiving, signal demodulation, DOCSIS upstream MAC, PHY, as well as packet processing and QoS. Together with the RF upstream I/O (RFU) module, it serves as the RF upstream interface between the cable headend and DOCSIS-based cable modems. The US16x8 is a single-slot module, supports 16 DOCSIS burst receivers, and is a hot-swappable unit.

Deployable in either the C100G or the smaller C40G, the US16x8 module offers up to 8 channels per port and 128 channels per module.



16 port



32 port

Highlights

Full DOCSIS 3.1 Support

Full OFDMA (96 Mhz) support available today

Superior Channel Density

Software upgradeable to 8 channels per port and 128 channels per module — no field upgrades required

Complete DOCSIS Unit

Complete DOCSIS upstream unit includes RF burst receiving, signal demodulation, DOCSIS upstream MAC, PHY, as well as packet processing and QoS

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

Feature	Benefit
Full DOCSIS 3.1 OFDMA Spectrum Support	Full DOCSIS 3.1 OFDMA (96Mhz) spectrum support allows service providers to deliver the faster upstream speeds needed for emerging applications.
Density	Software upgradeable to 8 channels per port and 128 channels per module. No field upgrades required.
Complete DOCSIS Unit	Complete DOCSIS upstream unit includes RF burst receiving, signal demodulation, DOCSIS upstream MAC, PHY, as well as packet processing and QoS.
Affordability	Industry's lowest cost per DOCSIS 3.0/3.1 channel for this class of product. Delivers economical solution for high bandwidth multi-media applications.

Technical Specifications

Standards Supported	DOCSIS 3.1, EuroDOCSIS 3.0, DOCSIS 3.0
Input Frequency Range	5 - 100MHz (16 port) 15 - 55 MHz (32 port)
QAM Modulations	QPSK, 8, 16, 32 and 64 QAM
OFDM Constellations	QPSK, BPSK, 8, 16, 32, 64, 128, 256, 512, 1024 QAM
DOCSIS 3.0 Channels (16 port)	8 ATDMA per port
DOCSIS 3.1 Channels (16 port)	1 OFDMA + 4 ATDMA per port
32 Port Option	4 ATDMA per port
Logical Channels per Physical Channel	2
QAM Data Rate / Channel	0.32 - 30.72 Mbps
OFDM Data Rate / Channel	950 Mbps
Power Consumption	200W
I/O Connector Type (16 port)	F-connector
I/O Connector Type (32 port)	MCX
Redundancy	N + 1
Input Range	-10 to 29 dBmV - 10Log(N)