

# CMP330-96

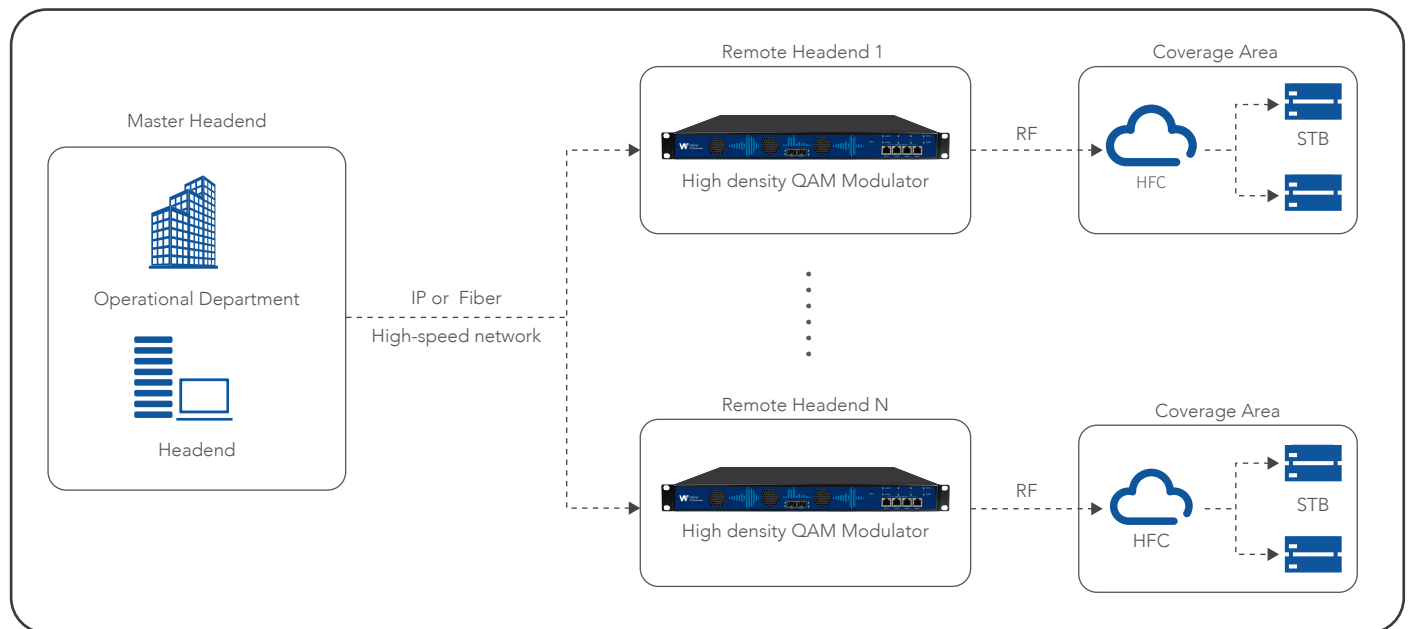
10G Edge QAM Modulator



## INTRODUCTION

CMP330-96 is a high density edge QAM modulator designed to meet the growing demand for content distribution over HFC network. It supports dense IP input receiving up to 3072 channels per module and modulating via 96 QAM frequencies via powerful multiplexing function. In addition, dual 10GB SFP+ ports from front panel are for independent/redundant optical fiber input. The device also supports optional CAS scrambling that can expand revenue and add value to customers. The CMP330-96 is a great value for program redistribution which can meet different system integration needs.

## USAGE APPLICATIONS



# CMP330-96

10G Edge QAM Modulator



## KEY FEATURES

- High-density, 4.8Gbps input and 96 QAM output
- Up to 3072 TS/IP stream inputs
- Agile frequency with independent constellation setting
- Dual 10GB SFP+ ports for independent/redundant optical fiber input
- Support IPv6 for product management
- Configuring IP inputs to QAM outputs on either bypass or multiplexing mode
- Excellent modulation performance, MER $\geq$ 40dB
- Sophisticated service multiplexing and PID filtering
- Supports NIT/BAT edit and LCN allocation of QAM output
- Web-based UI with on-site/remote monitoring via SNMP traps

## TECHNICAL SPECIFICATIONS

Front Panel	
2 x 10Gb SFP + ports IP IN, 2 x 100/1000M IP IN 2 x RJ45 100M Management Ports	
Input	
Interface	6 x SFP ports 3 x RJ45 ports (CAS scrambling)
IP Encapsulation	MPEG TS over UDP/RTP
MPEG TS	MPTS and SPTS
I/O Processing	Up to 3072 channels
Addressing	Unicast and multicast
IGMP Version	IGMP V1/V2/V3
Scrambling	
Interface	3 x 100 Mbps ports
Supported CAS	Support major CA systems
SCS	Internal
EMM Bitrate	Up to 3Mbps
Multiplexing	
Service level multiplexing, Pass-through	
PSI/SI auto generation, PCR Correction	
PID remapping and filtering	
EPG, PID and SI insertion	

QAM Output	
Interface	96 agile frequencies via 3 RF connector Female, 75 $\Omega$
Standard	ITU-T J.83 Annex A/C
Frequency Range	57~862MH
Bandwidth	6/7/8MHz
Constellation	16QAM/32QAM/96QAM/128QAM/256QAM
Symbol Rate	3.6~6.9Ms/s
MER	MER $\geq$ 40dB (equalized)
Additional Feature	Program name/service provider edit OTA upgrade for STBs
System	
Web-based network management	
SNMP Centralized management, support SNMP traps	
Ethernet software upgrade	
Physical & Environment	
Chassis Dimension	444mm x 44mm x 336mm (W x H x D), 1RU
Approx. Weight	7kg
Temperature	0~50 C (operation); -10~70 C (storage)
Input Voltage	100-240 VAC, 50/60Hz

## ORDER INFORMATION

Model	Description
CMP330-96	10G SFP+, 3072 IP inputs, 96 channel agile Edge QAM modulation