

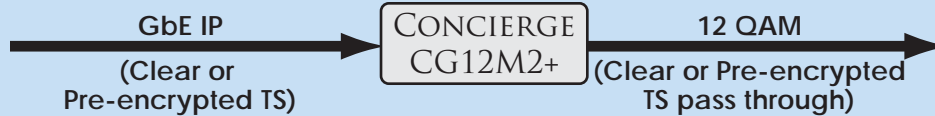
The **Concierge** IP to QAM is a flexible solution allowing cable and satellite operators to offer digital video services to their customers. As an Edge QAM, Concierge can easily be integrated into the headend to extend digital network infrastructures. Concierge is also a cost effective gateway solution for delivery of Free-to-Guest digital video entertainment to MDUs and hospitality accounts. Depending on the application, Concierge can decrypt input IP content and re-encrypt to output QAM using the standard Pro:Idiom® hospitality technology.



## Key Features

- Available in 3 variants:

→ Unencrypted IP steams in / Unencrypted RF QAM out (**CG12M2+**)



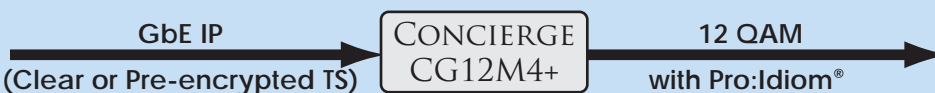
*Typical Usage:*  
CATV Headend

→ DTCP-IP streams in / Pro:Idiom® encrypted RF QAM out (**CG12M3+**)



*Typical Usage:*  
Satellite → Hotel

→ Unencrypted IP steams in / Pro:Idiom® encrypted RF QAM out (**CG12M4+**)



*Typical Usage:*  
Satellite/CATV → Hotel

- Up to 48 HD or 192 SD programs on 12 QAM carriers
- Web page interface allows for complete remote configuration and control of Concierge
- Low power
- Compact Design - single 1RU form factor
- Single image field upgradable firmware to incorporate new features

## Optimized for Gigabit Ethernet Networking

- Full line rate GbE video transport allowing complete use of GbE links
- Fully tested and interoperable with industry leading networking equipment



## Concierge IP to QAM - Rear

### Input

Physical Interface:	RJ-45, 10/100/1000 Ethernet
Format:	MPEG2 TS 188 byte TS packets MPEG2, MPEG4 – elementary streams Unicast, Multicast
Max Line Rate:	960 Mbps
Max Program Bitrate:	20 Mbps
Max Number of Programs:	48 HD or 192 SD
Encryption:	Clear or Pre-encrypted TS [CG12M2+, CG12M4+] Digital Transmission Content Protection over IP (DTCP-IP) [CG12M3+]

### Output

QAM Channels:	12
Connector:	1 x F-Type (75 $\Omega$ ) 3 non-overlapping blocks of 4 frequency adjacent QAM channels
Frequency Range:	88 – 870 MHz (Band Edges)
QAM Modulation:	ITU J.83 Annex B; 64, 256 QAM
Output Power:	+45 dBmV per carrier
Encryption:	Clear or Pre-encrypted TS pass through [CG12M2+] LG Pro:Idiom® [CG12M3+, CG12M4+]

### Processing

	SPTS Multiplexing MPTS Demux CBR and VBR
Network Jitter Buffer:	200ms

### Management and Control

Interfaces:	10/100/1000 Ethernet USB (Console Port)
Protocols:	HTTP TFTP BootP/DHCP IPv4 SNMP (future)

### General

Dimensions:	1.75" x 19" x 18"
Input Voltage Range:	90 to 240 VAC
Input Frequency:	50/60 Hz
Power Consumption:	150 W
Operating Temp:	0 – 50°C

### Ordering Information

CG12M2+	Concierge IP to QAM, 12xQAM RF Out, ROHS
CG12M3+	Concierge IP to QAM, DTCP-IP IN, Pro-Idiom(R) RF OUT, ROHS
CG12M4+	Concierge IP to QAM, Clear/Unencrypted IP IN, Pro-Idiom(R) RF OUT, ROHS

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