IFQ360
Edge QAM

IFQ360 Edge QAM is Wellav's next generation high-tech product designed to meet the increasing demand of IP streaming in systems. As more services like VOD, SVOD and OTT are added to Cable TV systems requiring IP streams, there is an urgent requirement to process these IP Streams efficiently. The IFQ360 Edge QAM has the processing capacity of up to 2048 IP Streams in and 192 channels QAM modulation in a one RU device. The output QAM module is flexible and efficient as it will support discrete frequencies modulation, RE-MUX and process Transport Streams, Service, PID coding. The QAM module offers scrambling capability. Monitoring of the equipment temperature and bit-rate statistics are available options, which can play a very important part at ensuring proper functions and long term operation.

Features

▶ The chassis supports up to 2 IP modules and 6 Edge QAM modules.

▶ Up to 2048 streams In and 192 Re-MUX streams Out.

▶ Up to 192 discrete frequencies modulation.

▶ RF performance meets DRFI requirements.

▶ Support NGOD protocol.

▶ Support re-MUX function and stream processing including operation on TS, services and PID.

▶ SFP backup available.

▶ Offer analysis and reconstruction on PAT/PMT/PID.

▶ Scrambling function. (Ready soon)

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Specifications

IP Input

Interface:	2x(4 or 2:2 SFP Port Backup)
IP Encapsulation:	MPEG TS over UDP/RTP
MPEG TS:	MPTS and SPTS
Input Processing:	Up to 2048 Streams, max at 72 Mbps per socket

Modulating

Physical Outputs:	1 RF for 32 channels
Output Frequency Range:	57~999 MHz
RF Channel:	32 (6/7/8 MHz) discrete frequencies per channel
Symbol Rate:	3.6 ~ 6.952 Ms/s
QAM Modulation Mode:	64/256 QAM
QAM Type:	ITU-T J.83 Annex A/ C, Annex B
Output Level:	
Effective, single channel:	112~120 dBuV
Combined, 32 channel:	101~109 dBuV
MER:	≥43dB (Equalized)
BER:	≤5×10-9 (64QAM,6.875Msps)

Re-multiplexing

PID:	Re-mapping and Filtering
MPTS Output Synchronization	
Routing:	Any Input to Any Output
Redundancy:	Input Service Redundancy & IP Port Redundancy

IP & Edge QAM Interface

IP Board	
Physical Interface:	4 SFP Ports and 1 RJ 45 Port
SFP Port:	Up to 256 Streams per port, max at 72 Mbps per Streams
RJ 45 Port:	For NMS only; 100/1000 Mbps detection automatically
IP Encapsulation:	MPEG TS over UDP/RTP
Input Processing:	Up to 256 Streams and 4096 PIDs per SFP port
Addressing:	Unicast and Multicast
IGMP Version	IGMPv2, IGMPv3
Edge QAM Board	
Physical Interface:	1 RF connectors

Management

Interface:	10M/100M/1000M Base-TX, RJ45
WEB-Based NMS:	Wellav Digital Service Manager
NMS:	Wellav Digital Service Manager, Support SNMP

Physical & Environment

Input Voltage:	90~264 V AC; 48 V DC
Power Consumption:	Approx 275 W
Rack Space:	1 RU
Dimension (WxHxD):	483mm x 44mm x 440mm
Operating Temperature:	0℃~50℃
Storage Temperature:	-10℃~70℃
Relative Operating Humidity:	<95%

Order Information

Edge QAM	IP In and QAM Out.