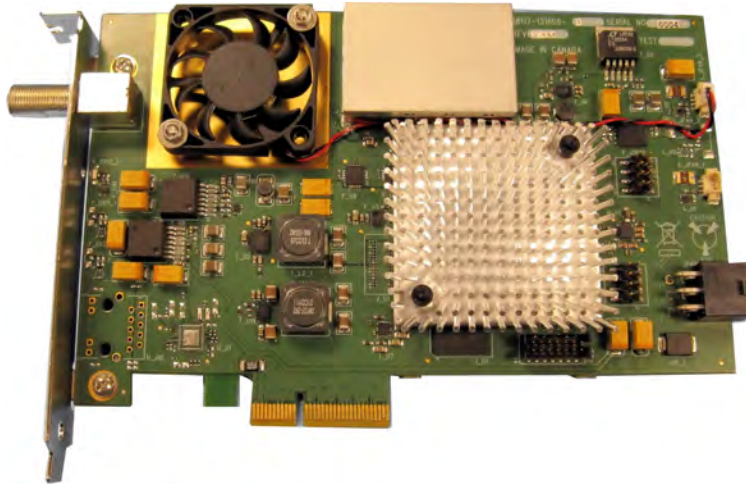


H₂ HydraQAM

A Cost Effective 16 QAM Channel Cable Modulator Solution

Reduced per card pricing to align with hospitality market requirements



The H₂ HydraQAM is SED's newest PCIe QAM modulator card designed for cost-sensitive RF modulator market applications like integration into multiple dwelling units (MDU's) and hospitality products.

Recognizing flexibility and price point as key drivers, the H₂ HydraQAM card can offer J.83 Annex A / B / C QAM modulation, plus Analog NTSC / PAL modulation with the PCIe interface or a Gigabit Ethernet interface.

H₂ HydraQAM is based on our existing high density HydraQAM card that offers industry leading QAM modulation performance that's suitable for cable headend applications. The H₂ HydraQAM card relaxes some of its predecessor's performance specifications to reduce per card pricing and to align it with the hospitality market requirements.

SED's approach is to use existing logic and design knowledge from our HydraQAM card to deliver a reliable and cost effective 16 QAM RF channel solution. The 16 channels of the H₂ HydraQAM are agile within a 160MHz window of spectrum, agile from 46 MHz to 640 MHz.

The H₂ HydraQAM is designed to support multiple applications. The H₂ HydraQAM supports QAM over PCIe for implementation in a computer. The card also supports GigE input data. The GigE can be mounted in a chassis as a stand-alone product, and it can also be used as an OEM card in another product.

Another potential application of the H₂ HydraQAM is using Analog modulation to feed the raw video.

The H₂ HydraQAM card can allow for a single platform to support Analog video today, while also migrating to digital QAM video tomorrow.

H₂ HydraQAM Specifications

Parameter	Specification
Input	
Number of Inputs	16 MPEG2 MPTS streams
PCIe	PCIe Gen 2
ITU-T J.83 Modulation	
Annex Support	A / B / C
Number of RF Channels	16
MER (unequalized)	> 35 dB
Constellation	64 QAM, 256 QAM
Symbol Rate Range	5.056941 (64 QAM), 5.360537 (256 QAM)
Interleaver	All supported
Output	
RF Channels	Carriers agile within a 160 MHz window
Frequency Range	46 to 640 MHz
Power Range	54 - 60 dBmV Composite (42 - 60 dBmV per channel)
Power Step Size	0.1 dB
Power Accuracy	±1 dB
Frequency Step Size	~1 Hz
Amplitude Flatness	0.25 dB p-p over any 6 MHz slot
Connector	F-connector (75 ohm)
Power	
Power	< 25W
Control Interfaces	
Drivers	Linux source code provided
Physical	
Size	PCIe form factor
Weight	1 pound (TBC)
Environmental	
Operating Temperature	0°C to 40°C
Storage Temperature	-40°C to 85°C
Humidity	Operating: 0% to 50% non condensing (max 80% for temperatures up to 31°C, decreasing linearly to 50% at 40°C) Non-operating: 10% to 95% non-condensing
Card Certification	Subpart B of Part 15 of FCC Rules for Class B digital devices, EN 55022, EN 55024

Chassis also available. Specifications subject to change without notice



To learn more, please contact:

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