

QM5910 - DVB-C Modulator

The QM5910 is the next generation High-Tech Broadcast DVB-C modulator and is a complete DVB-C modulator Compliant to EN 300 429 (DVB-C), ITU-T J.83 Annex A and ITU-T J.83 Annex C that fits into a standard SL-DSP-PI signal processing module for streamtel F series



The QM5910 is a ULTRA-COMPACT broadcast DVB-C modulator to deliver up to 52+ Megabit/s to any cable network channel.

Product Overview

Market Leading Performance

This modulator Supports 4-QAM, 16-QAM, 32-QAM, 64-QAM and 128-QAM; 256-QAM, and has agile frequency output from 400 MHz to 900 MHz @ -25 dBm (0 dBm upon request).

Power level can be increased by an amplifier within the same System rack frame, or multiple modulators can be combined all together via the RF-COMBINER module then to the RF amplifier module.

The QM5910 is ideal for any DVB-C broadcasting application as well for R&D and industrial testing.

Appropriate for a Wide Range of Applications

The QM5910 is a modulator for all possible DVB-C applications:

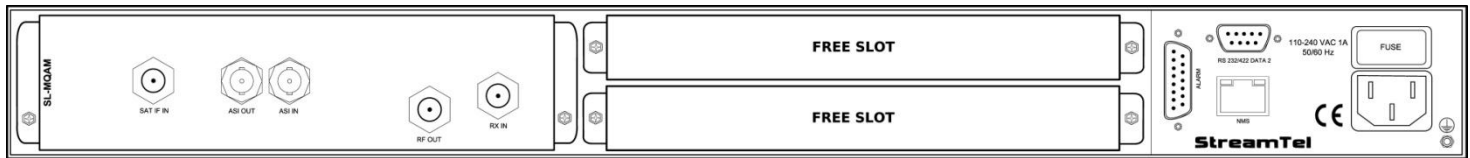
- DVB-C Broadcast Operations, DTH, CABLE, Local Insertion
- Professional Operations as Medical, Educational, Military, Hotels & Community distribution
- Industrial Operations as R&D, Set Top Box testing, Fixed and Mobile measurements

Main Features

- Full-Featured DVB-C modulator Compliant to EN 300 429 (DVB-C), ITU-T J.83 Annex A and ITU-T J.83 Annex C
- ASI input with bitrates up to 52 megabit/s
- Agile RF broadcast output @ 1Hz steps from 400MHz to 900MHz @ -25dBm level with spurious and harmonics better than <55dB
- Excellent MER specs
- Built-In WEB and SNMP remote control for system management
- Configurable Urgent / Non-Urgent alarming GPI out
- N+1 and N+N redundant configurations by using more modules in one or more frames



Rear Panel Sample



Specifications

Inputs

- ASI input with auto-rate adjust over BNC (F) 75 Ohm port
- LNB SAT input with NIT restamp
- XXXX

Outputs

- Out Level from -40 to -5dB
- Integrated RF Combiner to cascade multiple module to one single RF out
- XXX

Modulation

- Input frequency: 950-2150 MHz
- Tuning steps: 1 MHz
- Input level: 44-84 dB μ V
- Type of modulation: QPSK
- Symbol rate: adjustable 2-45 MS/s
- Internal error protection :Conv.,K=7,R=1/22/3, 3/4, 5/6, 7/8
- Spectrum inversion: C-/Ku-Band
- Interleaving: Conv., I=12
- FEC outer code: Reed Solomon (204, 188.8)

Features

- Full Local control via Local Rack Frame display & Keyboard or Touch Screen
- SW upgrade via RS-232 and Ethernet (TCP/IP)
- Unlimited fully adjustable operational configurations
- Configurable Hot alarm relay (GPI) Features I Remote Control Via TCP-IP & Serial Interface trough built-in WEB, SNMP, TELNET, GPI agents
- Full Support for HDTV/SDTV as H.264, VC1, MPEG2 - DVB, ATSC, IPTV, VOD

Control and Monitoring

- Front Panel**
- 2 Line – 40 character LCD display
 - 4 cursor Keys + 7 function keys

- Remote**
- Web Server

- SW upgrade**
- RS-232
 - Ethernet (TCP/IP)

Physical and Power

- Dimensions (H x D x H)**
- 1RU 19" Rack Mountable Chassis (W x H x D) 442.5 x 44.4 x 550 mm (17.5" x 1.4" x 21.6" approx)

- Consumption**
- 75W nominal / 250 W max depending on installed option modules

- Power Input**
- 100 - 120Vac / 220 - 240Vac wide ranging auto sensing

- Weight**
- 7kg approx

Environmental Conditions

- Operating Temperature**
- -10 C to 50 C (14 F to 122 F)
 - Humidity: 85% non-condensing
 - Vibration and shock: in accordance with MILSTD-810D
 - Storage : -40-70 C

Compliance

CE marked in accordance with EN 50082-1 and EN 55022, Class B, FCC

- Safety Compliance**
- in accordance with EN60950, IE60950

- EMC Compliance**
- EN55022, EN55024, AS/NZS3548, EN61000-3-2 and FCC CFR47 part 15B Class A



Ordering Informations

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Select Your Options >>>

QM5910 - DVB-C

DVB-C J.83 A/B/C Modulator - 50-1000 Mhz Agile – ASI input with auto-rate adjust - LNB SAT input with NIT restamp – Out Level from -40 to -5dB – Integrated RF Combiner to cascade multiple module to one single RF out - WEB+SNMP management - 1U rack mount

SL-QAMBOOST

+20dB DVB-C QAM amplifier – Input from the last cascaded modulator all the QAM modulated RF channels - Output one single RF out with adjustable level between – 20 dBm and + 20 dBm – one - 30 RF monitor out

SELECT



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