MODEL

HEMi™

HEAD END MICRO

EGT HEMi™

Some of EGT HEMi's™

valuable applications include

- Edge channel insertion
- Edge channel replacement
- Localized encoding
- MDU channel insertion
- Retirement center security channel addition
- Private enterprise-video channel distribution
- Closed circuit hospital channel delivery
- Military base security channel backhaul
- In-house stadium channel expansion and distribution

The ARRIS Head End Micro (EGT HEMi™) is another industry-changing smart approach to video processing. It is the industry's only fully integrated digital video solution for local and edge channel insertion.

EGT HEMi™ is an integrated multi-channel encoder, multiplexer, modulator and upconverter. EGT HEMi™ seamlessly inserts locally encoded channels into an existing all digital network allowing operators to optimize the network by adding new channels or replacing existing digital channels within a QAM. The integrated RF Bypass switch protects the network against interruptions in service while the intelligent QAM protection defends the network channels from possible bandwidth over provisioning. EGT HEMi™ enables operators to meet basic contractual obligations while supporting an all digital rollout by converting existing local channels to digital.

EGT HEMi™ features:

- Multi channel encoder that supports from 1 to 9 channels
- Redundant gigabit IP outputs
- RF bypass mode (passive loop-through)
- Intelligent QAM Protection
- MPEG-2 CBR encoding
- 1 stereo pair of Dolby Digital audio encoding per video channel
- Multiplexing and re-multiplexing of encoded streams
- Add/drop channel replacement (option)
- Remote management, monitoring and upgradeability
- QAM 64 or 256
- Frequency agile downconverter and upconverter
- GUI driven configuration and management
- SNMP based alarms and traps
- Password protection
- Lockable front doors with removable dust filters
- Internal temperature sensing and alarming

EGT HEMI™ Head End Micro

Specifications

VIDEO

Input	Composite Analog (NTSC)
# of Channels	1-9 channels
Encoding	MPEG-2 MP@ML
Chroma Format	4:2:0
Selectable Resolution	704, 544, 528, 352 x 480
Frame Rates	30 fps (@ full D1)
Encoded Bit Rates	2.5 – 8 Mbps
Bit Rate Modes	CBR, QBA support
Closed Captioning	SCTE – 20 (DVS157) SCTE – 21 (DVS053)
Process	Frame type and GOP adjustments
Input/Output Impedance	75Ω
Connector Type	BNC

AUDIO

Input	Analog (Unbalanced)
Operating Modes	Mono or Stereo
Encoding	MPEG-1 Layer II, Dolby Digital (AC-3)
Analog Sample Rates	32 kHz, 44.1 kHz, 48 kHz
Coding Rate	192 kHz
Input Impedance	10k Ω unbalanced
Connector Type	Mini-Stereo jack to RCA plugs

ENVIRONMENTAL

Operating Temperature Range	0°C to 50°C
Humidity	0-95%; non condensing
Power Supply Input	Volts: 115Vac Frequency: 60 Hz Amperes: 2.5 Amps
Form Factor	3RU
Dimensions	19" x 5.5" x 20.8" (WxHxD) Front Panel Lockable Doors
Capacity	Supports up to 8 video services into a single QAM channel

EGT HEMI™ Head End Micro Technical Specification

Specifications Continued

RF INPUT

Frequency Range	50-860 MHz
Frequency bandwidth	6 MHz
Carrier Frequency Step Size	25 kHz step sizes
Channel Maps	Standard, HRC, IRC
RF Tuner Input Level	-5 to +15 dBmV
RF Bypass Input Level	+15 to +35 dBmV
Output Impedance	75 Ω
Connector Type	F-connector

RF OUTPUT

Frequency Range	50-860 MHz
Frequency bandwidth	6 MHz
Carrier Frequency Step Size	25 kHz step sizes
Channel Maps	Standard, HRC, IRC
RF QAM Input Level	45 to 55 dBmV
Output Level Step Size	1 dB
RF Bypass Output Level	+10 to +35 dBmV
Output Impedance	75 Ω
Connector Type	F-connector

MODULATION OUTPUT

Modulation Modes	64 QAM; 256 QAM
Symbol Rate	Up to 7 Msymbols/sec; variable
FEC	ITU-T J83 FEC annex B
Baseband Format	MPEG-2 MPTS

CONFIGURATION

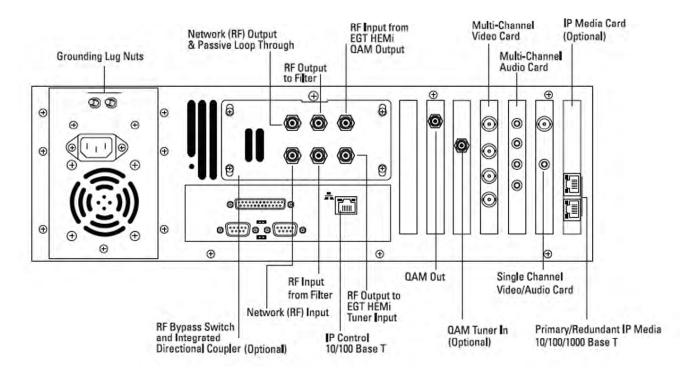|	
User Interface	Front Panel; LCD Menu Screens GUI; SNMP

Specifications are subject to change without notice.

The choice is clear.

At ARRIS, our products are designed to deliver more channels with outstanding quality. EGT HEMi™ is built on a rugged, flexible platform that offers a superior, yet cost-effective solution that no other product can deliver.

For additional information about the EGT HEMi Headend Micro, contact your ARRIS sales Representative.

Other related Documents:

- Technical Specifications (Pub Code: EGTHEMI_TS)

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