



Don't open your *door* to the unknown



Logenex SCDM

During the past five years, millions of digital flat panel television displays have been placed where we work, shop, vacation, educate ourselves and even where we sleep. Most display devices deployed in these locations receive content via a traditional coaxial CATV type distribution network. The intent of facility owners such as in the hospitality industry is to create a home environment for their customer. Savvy entrepreneurs have come to realize there is an opportunity to offset the costs of digital flat panel displays by allowing advertisers access to these units for targeted messaging directly to consumers while they engage in activities away from home. Logenex introduces a high quality and affordable solution that uses the legacy coaxial cable network to connect digital signage content providers with millions of existing flat panel displays where consumers are most likely to view them.

Logenex's SCDM will encode a single uncompressed program derived from devices with HDMI, Component Video or VGA outputs to HD MPEG2 video. An internal QAM modulator and low noise upconverter allows existing legacy fiber/coax networks to be used as distribution channels for digital signage content. This provides instant access to an extensive network of digital displays capable of viewing valuable advertiser based or informational video in a vibrant "High Definition" format.

The SCDM comes in a convenient desk top package.

Applications:

- **Digital Signage**
- **Commercial Business-to-Business**
- **Health Care**
- **Government/Military**
- **Cable TV/Networks**
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Benefits:

- **Supports 480i, 480p, 720p and 1080i resolutions**
- **MPEG1, Layer 2 audio (MP2)**
- **A frequency agile output to 1000MHz and +45dBmV output level insure simple trouble free integration onto existing networks**
- **Designed, manufactured and supported by R.L. Drake, a renowned leader in communications since 1943**

Specifications

SCDM	
Video Inputs:	VGA (with pass-through to monitor) HDMI (unencrypted) Component (Y-Cr-Cb) Composite via Y input for 480i
Input Resolutions:	480i, 480p, 720p, 1080i video
Audio Inputs:	L-R baseband audio, dual RCA, S/PDIF optical audio, 32kHz-192kHz sample rate PCM, HDMI embedded audio, 32kHz-192kHz sample rate PCM
Video Encoding:	MPEG2
Resolutions:	720x480, 1280x720, 1920x1080 - determined by input.
Color Sampling:	4:2:2.
Aspect Ratio:	Determined by input.
GOP:	User adjustable from 1 - 30.
Audio Encoding:	MPEG1, Layer 2 (MP2)
QAM Output:	64QAM or 256QAM, ITU Annex B
Frequency Coverage:	5 - 1000 MHz
Channel Plans:	STD, HRC, IRC, Broadcast and T Channels.
Output Power:	+45 dBmV
Output Level Adjustment Range:	15 dB
Phase Noise:	-95 dBc / Hz @ 10 kHz offset
Broadband noise:	-75 dBc @ > ±12 MHz offset, 4 MHz BW.
MER:	>40 dB equalized
Channel Frequency response:	< 1 dB
Carrier Suppression:	>40dB
I/Q imbalance:	< 1 degree
Output Level Accuracy:	±1 dB
Spurious:	> -60 dBc; Second Harmonic in the T-Channel band > -55 dBc
Format:	Table-top chassis, with optional 2-unit mounting in 1 RU 19" rack.
Power:	+5V from supplied power supply.

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