CLEARVIEW NTSC16 IP Digital to NTSC RF Analog Agile Modulator

Key Features

- Creates a 16 NTSC RF analog modulated channel lineup
- Decodes MPEG-2, H.264, and H.265 video content
- Dolby® Digital AC3, AAC, MPEG1-Layer2, MP3 audio decode
- Line 21 Closed Caption EIA 608 pass through
- Supports AFD or Manual aspect ratio config., 4:3 or 16:9

Product Overview

The **Clearview NTSC16** is a cutting-edge 1RU, multi-channel digital to RF analog synthesizer, designed to convert up to 16 HD or SD programs and the primary audio channel to 16 NTSC modulated RF analog channels.

The Clearview NTSC16 can input MPEG-2, MPEG-4/H.264 (AVC), or H.265 (HEVC) formats from an IP transport stream. Each IP MPEG transport stream is decoded, NTSC synthesized, and modulated to an STD, IRC, or HRC RF analog channel. All 16 NTSC channels are agile within a 208 MHz frequency block. Users may place the 208 MHz block anywhere within the 54 to 1002 MHz frequency span.

Ordering Information

Model	Stock #	Description
Clearview NTSC16	**6566**	**IP Digital to RF Analog Synthesizer; 16 Channels**

www.tonercable.com

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Specifications

Input

Connector	16x SPTS from IP Video RJ45
Control	1x RJ45 for device control
Stream Protocols	
Video Format	MPEG-2; H.264 (AVC); H.265 (HEVC)
Encryption	Clear or "NTSC8" from COMM3000 (COM51_ST04.01.83 ++)
Video Resolution	480i (59.94, 60 FPS); 480p (29.97, 30 FPS); 720p (29.97, 30, 60 FPS); 1080i (59.94, 60 FPS); 1080p (30, 59.94, 60 FPS)
Closed Captioning	EIA-608
Routing Protocol	Unicast
Audio	
Input Formats	Dolby® AC3, AAC, MPEG1-Layer2, MP3

General

Dimensions (W x H x D)	19.0 x 19.2 x 1.75 in (483 x 488 x 45 mm)
Weight	9.5 lbs (4.31 kg)
Power	110/230 VAC, 0.9/0.45 A, 60/50 Hz
Power Consumption	45 W
Operating Temp.	32 to 122 °F (0 to 50 °C)
Storage Temp.	-13 to 158 °F (-25 to 70 °C)
Operating Humidity	0 to 95% RH @ 35 °C max, non-condensing

Alarms & Monitoring

Front Panel Indicators	1x Power and Status LED (Bicolor) 1x Fan Control Status LED (Bicolor) 16x Decoder Status LED (Bicolor)
Local Control	1x IP Reset Button
Monitor Output	1x RF Test (-20dB) Connector

Output

Connector	1x "F" Female
RF	
Output Frequency Range	54 to 1002 MHz
No. of Output Channels	16 channels in a 208 MHz span
Channel Plans	Standard, IRC, HRC
Output Power	+48 dBmV per channel, ± 1 dB
Broadband Flatness	± 1 dB
Level Adjustment Range	15 dB (±0.5 dB increment)
Impedance	75 Ω
Return Loss	>14 dB
Test Level	-20 dB (±2 dB of Main RF Output)
Test Return Loss	>12 dB
Spurious	>-60 dB
Phase Noise	-110 dBc @ 10 kHz offset
Frequency Accuracy	±3 ppm
Freq. Response (in channel)	±0.5 dB
Signal to Noise Ratio (SNR)	65 dB @ +48 dBmV output
Broadband Noise Floor	65 dB, 4 MHz BW, +48 dBmV output
Adjacent Chan. Interference	>-60 dB
Closed Captioning	EIA-608 (Line 21)
Audio	
Type	Monaural
Signal to Noise Ratio (SNR)	65 dB
Frequency Response	± 0.5 dB, 50 Hz to 15 kHz
Lag Time	≤ 45 ms
Lead Time	≤ 15 ms

Specifications Subject To Change Without Notice

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