

NXG-NTSC-16 IP Digital to RF Analog Converter



Key Features

- » Delivers up to 16 NTSC RF analog channels
- » MPEG-2, MPEG-4, and H.265 video decode
- » Dolby® Digital AC3, AAC, and MP3 audio decode
- » Line 21 Closed Caption EIA 608-708 pass-through
- » Supports AFD or Manual aspect ratio configuration

Product Overview

The **NXG-NTSC-16** module is a multi-channel digital to RF analog converter. The NXG-NTSC-16 module converts up to 16 HD or SD programs and the primary audio channel to 16 NTSC modulated RF analog channels, all within the NXG digital signal processing platform.

The NXG-NTSC-16 can input any MPEG-2, MPEG-4/H.264 (AVC), or H.265 (HEVC) format from the NXG IP backplane to decode, convert, and modulate it to an NTSC RF analog channel. All 16 NTSC analog RF 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
NXG-NTSC-16	6733	IP Digital to RF Analog Converter Module; 16 Channels

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Module Specifications

Input	
IP	16x SPTS from NXG Backplane
Video Formats	MPEG-2; H.264 (AVC); H.265 (HEVC)
Video Resolutions	480i (59.94, 60 FPS) 480p (29.97, 30 FPS) 720p (29.97, 30 S) 1080i (59.94, 60 FPS) 1080p (30, 59.94, 60 S)
Closed Captioning	EIA-608 / EIA-708
Resolution Control	AFD

Audio	
Audio Formats	MPEG1-Layer2; Dolby® AC3; AAC; MP3
SAP	NTSC is mono audio, no SAP support
Sample Rates	
AAC/MPEG	16, 32, 44.1, 48 kHz
Dolby® Digital AC3	32, 44.1, 48 kHz

General	
Dimensions (W x H x D)	1.15 x 15.5 x 7.0 in (29 x 394 x 178 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	40 W
Weight	2.0 lbs (0.9 kg)
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	1x Status LED (Bicolor)
Monitor Output	RF Test (-20 dB) Connector

Output	
RF Connector	1x "F" Female
Standard	NTSC Analog, Modulated
Frequency Range	54 to 1002 MHz
Output Channels	16 in a 208 MHz block
Channel Plans	Standard, IRC, HRC
Power Level	+48 dBmV per chan. ± 1 dB
Broadband Flatness	± 1 dB
Level Adjust. Range	15 dB (±0.5 dB increment)
Impedance	75 Ω
Return Loss	> 14 d
Test Level	-20 dB (± 2dB of Main RF Output)
Test Return Loss	> 12 d
Spurious	> -60 d
Phase Noise	-110 dBc @ 10 kHz offset
Freq. Accuracy	± 3 ppm
Freq. Response (in channel)	± 0.5 dB
SNR	65 dB @ +48 dBmV
Broadband Noise Floor	65 dB, 4 MHz BW, +48 dBmV
Adjacent Chan. Interference	> -60 d
Closed Captioning	EIA-608 (Line 21)

Audio Output	
Audio	Monaural (from primary audio input)