

NXG-NTSC16

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-NTSC16	6733	IP Digital to RF Analog Converter Module; 16 Channels

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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, 60 FPS); 1080i (59.94, 60 FPS); 1080p (30, 59.94, 60 FPS)
Closed Captioning	EIA-608 / EIA-708
Resolution Control	AFD
AUDIO INPUT	
Input Format	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 7.0 x 15.5 in (29 x 178 x 394 mm)
Weight	2.0 lbs (0.9 kg)
Power	DC via NXG Mainframe Backplane
Power Consumption	40 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	1x Status LED (Bicolor)
Monitor Output	RF Test (-20 dB) Connector

OUTPUT	
Connector	1x "F" Female
-20dB RF Test Point	1x "F" Female
R F	
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 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
Freq. Accuracy	±3 ppm
Freq. Response (in channel)	±0.5 dB
Signal to Noise Ratio	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 OUTPUT	
Audio	Monaural