Blonder Tongue

NXG
Digital Video Platform

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

Please order by Stock Number | 800-523-6049 | sales@blondertongue.com

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» Output Module

NXG-NTSC-16

IP Digital to RF Analog Converter

Specifications

Input

IP:	16x SPTS from NXG Backplane
Video Formats:	MPEG-2, H.264, H.265 (HEVC)
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 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

Alarms & Monitoring

Front Panel:	Power and 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 dB
Test Level:	-20 dB (± 2dB 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
SNR:	65 dB @ +48 dBmV
Broadband Noise Floor:	65 dB, 4 MHz BW, +48 dBmV
Adjacent Chan. Interference:	> -60 dB
Closed Captioning:	EIA-608 (Line 21)
Audio:	Monaural (from primary audio input)

General

Dimensions (W x D x H):	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-condensation