

Blonder Tongue



NXG

Digital Video Platform

SPECIFICATION GUIDE



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Blonder Tongue

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Please order by **Stock Number** | 800-883-8839

The **NXG** is a powerful, two-way, future-proof platform, ideal for delivering next generation video services to enterprise locations including hospitality, educational, multifamily residential, healthcare, business parks, or institutional “pocket community” settings.

Create a technologically advanced customized system solution, based on specific application needs.

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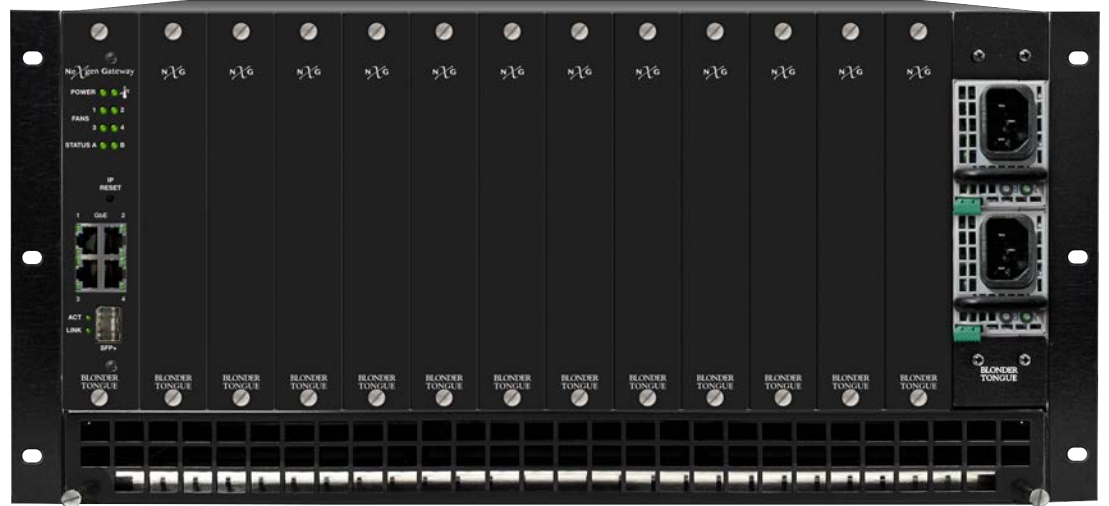
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NXG System Kit

Module-Based IP Digital Video Platform



Master Controller



NXG System Kit with RFI Blank Front Panels

The **NXG** System Kit, containing the Mainframe Chassis, Controller Module, and dual redundant, high reliability power supplies, is a powerful 5RU set up that allows for complete customization based on specific video processing and distribution needs.

The **NXG** addresses the challenges of migrating to future IP-DRM content protection practices while supporting today's CableCARD® ingest encryption.

Ordering Information

Model	Stock #	Description
NXG-System Kit	6799	1x NXG Chassis, 1x Master Controller, 2x Power Supplies

- » Mainframe Chassis: 12 module slot 5 RU chassis with 60 Gb capacity IP backplane
- » Master Controller: Controls the Entire NXG Platform
- » Power Supply: (2) Required for Redundancy; Hot-Swappable

Key Features

- » System configuration and management via a powerful Linux-based monitoring and control system, providing IP routing and traffic management
- » Master Controller now includes integrated IP input **or** output and IP Whitelisting
- » Module interconnection via 60 Gbps capacity high-speed backplane
- » Hot-Swappable fully-redundant power supplies and fans

Master Controller Module Specifications

Input/Output

IP Connectors

Gigabit Ethernet	4x RJ45 GigE for IP Input or Output & Control
SFP+	1x 10 GigE SFP+ data port for distribution of IP streams and remote monitoring & control

Alarms / Monitoring / Control

Status	LED Indicators for Power, Temperature, Fans, and all network connections
Remote Monitoring / Control	GUI-based menu via web browser, automated e-mail system alarms, and SNMP traps for asynchronous alarms

- » System Configuration and Traffic Management
- » Alarm Summary and Event Logs
- » System Status of all Deployed NXG Modules
- » Import, Export, and Edit of Configuration Files
- » Remote Firmware Updates to all Modules
- » Authentication Management via TACACS+ (future)
- » Supports Fully-Redundant Configurations in IP-based Installations
- » Supports Fully-Redundant Configurations in QAM-based Installations with Additional HW
- » SNMP Support

The Master Controller module is an Industrial Ethernet Switch supporting:

- » Configurable for Integration with Complex Networks
- » 802.1q VLAN Switch with 32K MACs and 4K VLANs
- » Full Management of Layer 2 and Layer 3 Forwarding

NXG System Kit

Module-Based IP Digital Video Platform

Mainframe/Power Specifications

General - Mainframe Backplane

Dimensions (W x H x D)	19.0 x 8.72 x 18.6 in (483 x 221 x 472 mm)
Power	100-240 VAC
Power Consumption	16 W (Master Controller Only)
Shipping Weight	17 lbs (7.7 kg)
Operating Temp.	32 to 122 °F (0 to 50 °C)
Storage Temp.	-13 to 158 °F (-25 to 70 °C)
Operating/Storage Humidity	0 to 95% RH @ 35 °C max, non-condensing

- » 60 Gbps Capacity; 2.5 Gb Bi-directional to each individual NXG Module
- » 12 Module Slots Configurable to Your Application
- » Easily Replaceable Fans for Heat Dissipation
- » Front to Back Airflow; Cleanable / Replaceable Air Filters

General - Power Supply

Dimensions (W x H x D)	1.57 x 2.15 x 9.0 in (40 x 54.5 x 228 mm)
Power	In 100-240 VAC; 9A; 50/60 Hz Out 12 VDC; 54.2A; 650 W Max
Power Consumption	650 W (Each Power Supply)
Weight	1.8 lbs (0.81 kg)
Operating Temp.	23 to 122 °F (-5 to 50 °C)
Storage Temp.	40 to 158 °F (-40 to 70 °C)
Operating/Storage Humidity	5 to 96% RH @ 45 °C max, non-condensing

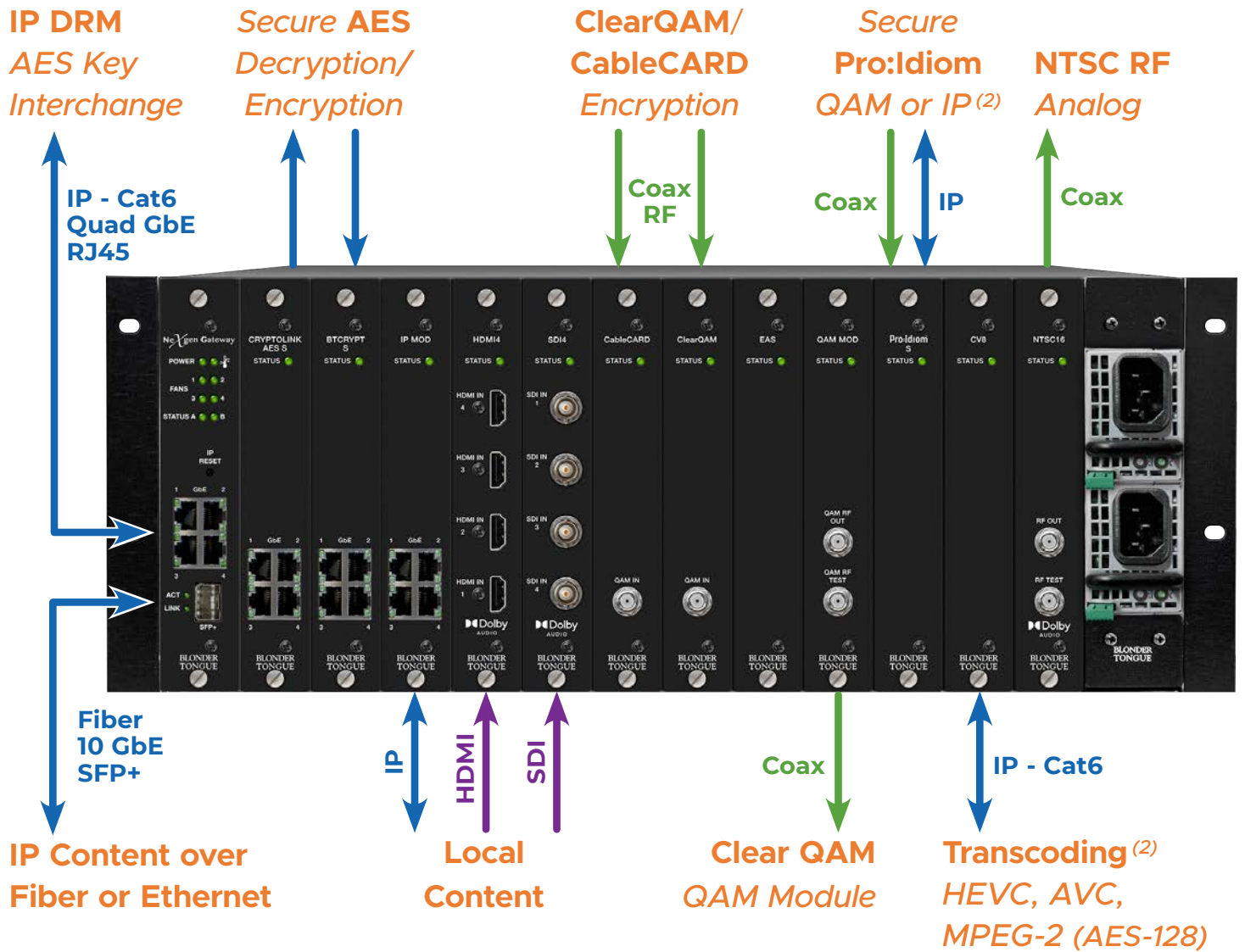
- » Internal Fan for Heat Dissipation
- » Status LEDs
- » Hot-Swappable

Typical BTU Requirements

Modules	2	4	6	8	10	12
Watts	102	162	194	242	290	350
BTUs	348	554	664	827	990	1200
	1=NXG-CCQD-24	2=NXG-CCQD-24	4=NXG-CCQD-24	6=NXG-CCQD-24	7=NXG-CCQD-24	8=NXG-CCQD-24
	1=NXG-32CH-QM	2=NXG-32CH-QM	2=NXG-32CH-QM	2=NXG-32CH-QM	3=NXG-32CH-QM	4=NXG-32CH-QM

Contact the BT Labs' Systems Engineering Dept. (M-F, 8-5p ET) for exact BTU specifications based on your module use.

NXG System Overview⁽¹⁾



(1) Diagram does not represent all current or future module options or combinations.

(2) Modules input and/or output through the backplane.

NXG-EDGE System Kit

Flexible Edge Video Delivery Platform

Configurations

- » IP Edge QAM from SFP+ or Gigabit Ethernet Sources
- » QAM to IP with Multicast or Unicast Support
- » IP to IP with Multicast Translation or Unicast Termination
- » Wide Range of DRM & Encryption/Decryption Options



Key Features

- » Master Controller now includes integrated IP input **or** output and IP Whitelisting
- » 2RU form factor Chassis Supports 3 NXG modules + IP Edge Controller
- » IP Routing and Traffic using Linux-based Monitoring and Control System
- » System Configuration and Remote Management
- » SFP+, Gigabit Ethernet, or QAM Content Input with Optional Module

NXG EDGE is the 2 RU version of Blonder Tongue's NXG, designed and priced for Edge video delivery. Each NXG Edge System comes equipped with a mainframe chassis, IP edge controller module including IP input **or** output capability, and enterprise-class integrated power supply. Customers can purchase up to 3 existing NXG input, output, or processing modules to create individually customized solutions for each deployment.

Ordering Information

Model	Stock #	Description
NXG-EDGE System Kit	6773	1x Mainframe Chassis with Internal Power Supply and 1x Master Controller

IP Edge Controller Module Specifications

Input/Output

IP Connectors

Gigabit Ethernet	4x RJ45 GigE for IP Input <i>or</i> Output & Control
SFP+	1x 10 GigE SFP+ data port for distribution of IP streams and remote monitoring & control

Alarms / Monitoring / Control

Status	Indicator LEDs for Power, Fans, Temperature, and all network connectors
Remote Monitoring / Control	GUI-based menu via web browser, automated e-mail system alarms, and SNMP traps for asynchronous alarms

- » System Configuration and Traffic Management
- » Alarm Summary and Event Logs
- » System Status of all Deployed NXG Modules
- » Import, Export, and Edit of Configuration Files
- » Remote Firmware Updates to all Modules
- » Authentication Management via TACACS+ (future)
- » Supports Fully-Redundant Configurations in IP-based Installations
- » Supports Fully-Redundant Configurations in QAM-based Installations with Additional HW
- » SNMP Support

The Master Controller module is an Industrial Ethernet Switch supporting:

- » Configurable for Integration with Complex Networks
- » 802.1q VLAN Switch with 32K MACs and 4K VLANs
- » 15 Gbps Capacity; 2.5 Gb Bi-directional to each individual NXG Module
- » 3 Module Slots Configurable to Your Application



NXG EDGE System Kit

Flexible Edge Video Delivery Platform



2 RU Mainframe Power & Backplane Specifications

General

Dimensions (W x H x D)	19.0 x 3.5 x 14.5 in (483 x 89 x 368 mm)
Power	110/230 V, 60/50 Hz AC cord input
Power Consumption	110 W (fully-loaded)
Shipping Weight	14.5 lbs (6.57 kg)
Operating Temperature	32 to 122 °F (0 to 50 °C)
Storage Temperature	-13 to 158 °F (-25 to 70 °C)
Operating Humidity	0 to 95% RH @ 35 °C max, non-condensing

Optional DRM, Encryption / Decryption

- » Pro:Idiom® Bulk Content Encryption
- » Verimatrix Bulk Descrambling (future, Q3 2021)
- » MobiTV / Widevine Bulk DRM Descrambling
- » Various Multicast Configurations Supported
- » Innovative Systems InnoCrypt Bulk Descrambling
- » Unicast with MPEG-DASH or HLS Termination
- » Customized AES Compliant Encryption/Decryption for Private Network Deployment Architectures



- Status Indicator LEDs for Power, Temperature, Fans, Module Update (A) and IP Reset (B)
- 1x IP Reset Control for Factory Defaults
- 4x RJ45 GigE, with status indicators, for IP Input *or* Output & Control
- 1x 10 GigE SFP+ data port, with status indicators, for distribution of IP streams and remote monitoring & control



Mainframe Chassis - Rear View

NXG-IP

IP Module (SPTS)

Key Features



- » Each RJ45 GbE port is input **or** output configurable
- » Supports up to 256 SPTS per RJ45 GbE port
- » Supports up to 1024 SPTS full-duplex per module
- » Supports MPEG-2, H.264 (AVC), and H.265 (HEVC) content
- » VBR or CBR
- » IGMPv2 and IGMPv3
(primary and secondary source IP addresses)

Product Overview

The **NXG-IP** accepts incoming MPEG-2 Transport Streams or H.264 streams in an SPTS format. The module supports up to 256 SPTS per 1Gb RJ45 Ethernet port.

Full-duplex for a total capacity of up to 1024 SPTS inputs, and 1024 SPTS outputs per module.

Ordering Information

Model	Stock #	Description
NXG-IP	6798	IP Module (SPTS); 256 Input / 256 Output IP Streams; 4x GbE Ports

Specifications

Input	
IP	2.2 Gb via RJ45 Connectors
Video Codecs	MPEG-2; H.264 (AVC); H.265 (HEVC)
Addressing	Multicast or Unicast
MPEG TS	SPTS Full-Duplex
Management	IGMPv2 & IGMPv3

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	11 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

Output	
IP	2.2 Gb via RJ45 Connectors
Video Codecs	MPEG-2, H.264 (AVC), H.265 (HEVC)
Addressing	Multicast or Unicast
MPEG TS	SPTS Full-Duplex

Alarms & Monitoring	
Front Panel	1x Status LED (Bicolor)

NXG-IP-MPTS

IP Module (MPTS)

Key Features



- » Each RJ45 GbE port supports up to 32 MPTS
- » Supports up to 128 MPTS per module
- » Supports up to 16 programs per MPTS
- » Supports both MPEG-2 and H.264 (AVC) content
- » VBR or CBR
- » IGMPv2 and IGMPv3
(primary and secondary source IP addresses)

Product Overview

The **NXG-IP-MPTS** accepts MPTS or SPTS, MPEG-2 or H.264 (AVC) IP transport streams and automatically converts them to all SPTS into the mainframe backplane for muxing and distribution.

The NXG-IP-MPTS accepts up to 32 MPTS per 1Gb RJ45 Ethernet port, and up to 16 programs per MPTS, for a full capacity of 2048 streams.

Ordering Information

Model	Stock #	Description
NXG-IP-MPTS	6798 M	IP Module (MPTS); 128 MPTS Input Streams; 16 programs per MPTS; 4x GbE Ports

Specifications

Input	
IP	2.2 Gb via RJ45 Connectors
Video Codecs	MPEG-2, H.264 (AVC)
Addressing	Multicast or Unicast
MPEG TS	MPTS
Management	IGMPv2 & IGMPv3

Alarms & Monitoring

Front Panel	1x Status LED (Bicolor)
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Output	
IP	2.2 Gb to Mainframe backplane; SPTS available for all other modules

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	11 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

NXG-CQAM-32

ClearQAM Input Module



Key Features

- » Supports 32 programs per module
- » Supports 54 to 1002 MHz frequency range

Product Overview

The **NXG-CQAM-32** processes HD and SD programs from a Cable or Telco TV service provider.

The NXG-CQAM-32 module includes multiple full-band-capture QAM tuners to provide ingest of up to 32 programs from the incoming cable system. This module is capable of tuning any 32 "clear QAM input" channels from 54 to 1002 MHz.

Ordering Information

Model	Stock #	Description
NXG-CQAM-32	6777A	ClearQAM Input Module; Up to 32 Programs

Specifications

Input	
QAM	
Connector	1x "F" Female
Standards	ITU-T J.83 (64 and 256 QAM)
Tuning Range	CATV (54-1002 MHz)
Symbol Rate	5.3606 Msymbols/sec (QAM 256); 5.057 Msymbols/sec (QAM 64) – Auto Detect
Bandwidth	6 MHz
QAM Power Level	-15 to +20 dBmV
Return Loss	12 dB
Impedance	75 Ω

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	16 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)
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NXG-CCQD-24

CableCARD® QAM Input Decryption Module



Key Features

- » Supports CableCARD® compatibility with Media-Cipher, PowerKey, and NDS applications
- » Supports 24 programs per module (6 programs per CableCARD)
- » Supports 54 to 1002 MHz input frequency range
- » Provides EAS support via SCTE-18 to force-tune across all channels

Product Overview

The **NXG-CCQD-24** decrypts HD and SD programs from a Cable or Telco TV service provider. The NXG-CCQD-24 includes multiple full-band-capture QAM tuners and supports up to 4 CableCARDs to provide ingest of up to 24 programs from the incoming cable system.

The **NXG-CCQD-24** module is capable of tuning any 24 QAM channels from 54-1002 MHz, and will decrypt any MediaCipher, PowerKey, or NDS encryption, based upon the customer-installed CableCARDs.

Ordering Information

Model	Stock #	Description
NXG-CCQD-24	6788	CableCARD Input Decryption Module; Holds 4 CableCARDs; 24 QAM Channels

Specifications

Input	
QAM	
Connector	1x "F" Female
Standards	ITU-T J.83 (64 and 256 QAM)
Tuning Range	CATV (54-1002 MHz)
Symbol Rate	5.3606 Msymbols/sec (QAM 256); 5.057 Msymbols/sec (QAM 64) – Auto Detect
Bandwidth	6 MHz
QAM Power Level	-15 to +20 dBmV
Return Loss	12 dB
Impedance	75 Ω
CableCARD	
Interface	CableCARD Interface 2.0

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	20 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)
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NXG-Cryptolink-AES-S

Secure AES-128 Input Decryption Module

Key Features

- » Supports Decryption of the NXG-BTCRYPT-S module
- » Supports AES Encryption of multiple partners/devices
- » Supports up to 512 SPTS
- » IGMPv2 and IGMPv3



Product Overview

The **NXG-Cryptolink-AES-S** accepts incoming AES-128 encrypted IP single program transport streams for the decryption of up to 256 SPTS channels per front panel RJ45 GbE ports 1 & 2; ports 3 & 4 are reserved.

The NXG-Cryptolink-AES-S can accept input from the Blonder Tongue NXG-BTCrypt-S module, multiple partner devices, and is adaptable to additional partners/keys with very little development time.

Ordering Information

Model	Stock #	Description
NXG-Cryptolink-AES-S	6798 2S	Secure AES-128 Input Decryption Module

Specifications

Input

Standard	2x 1Gb RJ45 Ports (1 & 2)
Addressing	Multicast or Unicast
Management	IGMPv2 and IGMPv3
MPEG TS	SPTS
Encryption	AES-128

Alarms & Monitoring

Front Panel	1x Status LED (Bicolor)
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Output

IP	2.5 Gb to NXG Backplane
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General

Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	11 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

NXG-Cryptolink Innovative-S

Secure Innovative Systems Decryption & Descrambling Module

Key Features

- » Supports Decryption of Innovative Systems™ as well as the NXG-BTCRYPT module content.
- » Supports up to 128 Channels of bulk decryption / descrambling
- » Supports Multicast with IGMPv2 and IGMPv3
- » 2 separate 1 Gbps RJ45 input ports



Product Overview

The **NXG Cryptolink Innovative Systems** module accepts incoming Innovative Systems encrypted IP single program transport streams from Multicast sources, for the decryption and descrambling of up to 128 Channels from front panel RJ45 GbE ports. This lets operators manage SMB and Hospitality video customers from their residential multicast IP TV systems, rather than operating several technologies in parallel.

NXG Cryptolink modules can also accept input from other Blonder Tongue NXG BTCRYPT modules to create highly secure private transmission and reception links between multiple partner devices. NXG Cryptolink is also adaptable to integrate with additional partner devices. Can supports AES and other standard symmetric key international standards.

Ordering Information

Model	Stock #	Description
NXG-Cryptolink Innovative-S	6798 4S	Secure Innovative Systems Decryption Module

Specifications

Input

Connector	2x 1Gb RJ45 ports (1 & 2)
Addressing	Multicast or Unicast
Management	IGMPv2 and IGMPv3
MPEG TS:	SPTS
Encryption	Innovative Systems / AES-128 / NXG-BTCRYPT-S

Alarms & Monitoring

Front Panel	1x Status LED (Green)
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Output

IP	2.5 Gb to NXG Mainframe Backplane
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General

Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 78 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	11 W
Shipping Weight	2.0 lbs (0.9 kg)
Operating Temperature	32 to 122 °F (0 to 50 °C)
Storage Temperature	-13 to 158 °F (-25 to 70 °C)
Operating Humidity	0 to 95% RH @ 35 °C max, non-condensing

NXG-Cryptolink MobiTV

OTT Bulk IPTV Video Re-Distribution Module for B2B

Key Features

- » OTT Video to Linear Broadcast Conversion
- » Descrambles 64 Channels (per blade) for SMB and Hospitality
- » Creates Operator Service demarcation point for B2B
- » Descrambles Widevine DRM on MPEG-DASH ABR Unicasts
- » Selectable ABR profiles on a per channel basis
- » Uses standard MobiTV residential unicast feeds, no need to create separate dedicated bulk video multicast feeds
- » Deployed as Edge/IP architecture or centralized with HE/CO-based RFOG distribution architecture



Product Overview

The **NXG-Cryptolink MobiTV** module allows Cable, Fiber Optic, and Telco Operators to support Hospitality, Enterprise, and Healthcare customers in managing all their video services from one location, integrated directly into Service Operator's video distribution system.

With the Blonder Tongue NXG Cryptolink module, there is no need to purchase additional servers, STB or hospitality TV's to support SMB/Hospitality customers. Customers can simply add the **Cryptolink MobiTV** module to a NXG headend and create linear channel lineups at each customer's property in QAM, IP or Analog/NTSC formats.

Ordering Information

Model	Stock #	Description
NXG-CRYPTOLINK MOBITV	6774 4	MOBITV bulk video ingest and descrambling module

Specifications

Input	
ABR Protocol	MPEG - DASH
IP	2.5 Gb from NXG Backplane (IP from Master Controller)
Encryption	L3 Widevine with MobiTV Interfaces
Video Resolution	Pass-through
Closed Captioning	EIA-608 / EIA-708
Addressing	Unicast
Audio	
Input Formats	Pass-through only
Rates	Pass-through only

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	20 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

Output	
UDP	SPTS to NXG Mainframe Backplane
Stream Protocols	
Standard	ISO / IEC 13818-1 Systems
TS Packet Length	188 bytes
Sync Byte	0x47
Encoding Type	CBR / Capped VBR
Video Data Rates	DASH stream dependent
TS Supported	64 SPTS
Video Format	MPEG-2; H.264 (AVC); H.265 (HEVC) (Pass-through only)
Video Resolution	Pass-through only
Addressing	Unicast
Audio	
Output Formats	Pass-through only

Alarms & Monitoring	
Front Panel	1x Status LED (Bicolor)

NXG-CV8

Audio/Video MPEG Transcoder Module



Key Features

- » Transcodes up to 8 streams
- » Transrate from 2 Mbps to 19 Mbps
- » Dolby® Digital Audio Encoder support

Product Overview

The **NXG-CV8** module will transcode up to 8 individual MPEG-2, MPEG-4/H.264, or H.265/HEVC video streams into MPEG-2, MPEG-4, or H.265 video. Input and output resolutions are fully flexible, 480i SD to 1080p30 HD.

The NXG-CV8 will transcode Primary and Secondary Audio from AC3, AAC, MPEG1-Layer2, MP3 to AC3, AAC, MP3, as well as allow Audio pass-through.

The NXG-CV8 includes advanced lip-sync audio processing features for all modes of audio transcoding and pass-through.

Ordering Information

Model	Stock #	Description
NXG-CV8	6774	Audio/Video MPEG Transcoder Module

Specifications

Input	
UDP	SPTS from NXG Mainframe Backplane
Stream Protocols	
Standard	ISO/IEC 13818-1 Systems
TS Packet Length	188 bytes
Sync Byte	0x47
TS Supported	8 SPTS
Video Format	MPEG-2; H.264 (AVC); H.265 (HEVC)
Video Resolution	480i (60 FPS); 480p (30/60 FPS); 720p (30/60 FPS); 1080i (60 FPS); 1080p (30 FPS)
Closed Captioning	EIA-608/EIA-708
Addressing	Unicast
Audio	
Input Formats	Dolby® AC3, AAC, MP3, MPEG1-Layer2 (Pass-through/Decode only)
SAP	Supported
Audio Bit Rates	64, 96, 112, 128, 160, 192, 224, 256, 320, and 384 Kbps

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	20 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

Output	
UDP	SPTS to NXG Mainframe Backplane
Stream Protocols	
Standard	ISO/IEC 13818-1 Systems
TS Packet Length	188 bytes
Sync Byte	0x47
Encoding Type	CBR/Capped VBR
Video Data Rates	2 Mbps to 19 Mbps (0.1 Mbps increments)
TS Supported	8 SPTS
Video Format	MPEG-2; H.264 (AVC); H.265 (HEVC)
Video Resolution	480i (60 FPS); 480p (30/60 FPS); 720p (30/60 FPS); 1080i (60 FPS); 1080p (30 FPS)
Closed Captioning	EIA-608/EIA-708
Addressing	Unicast
Audio	
Output Formats	Dolby® AC3, AAC, MP3, MPEG1-Layer2 (Pass-through only)
SAP	Supported
Audio Bit Rates	128, 192, and 256 Kbps

Alarms & Monitoring	
Front Panel	1x Power & Status LED (Bicolor)

NXG-HDMI4

4 Channel HDMI Encoder Module



Key Features

- » Encode HDMI sources for custom IP & RF distribution
- » 4 channels of locally sourced content via HDMI input
- » Encoding to H.265 (HEVC), H.264 (AVC), or MPEG-2
- » Dolby® Digital Audio (AC3), AAC, and MP3 support
- » High video encoding quality levels at low bit rates

Product Overview

The **NXG-HDMI4** module encodes HDMI inputs for custom IP and RF distribution, supporting the ingest of SD and HD content from source resolutions up to 1080p60.

H.265 (HEVC), H.264 (AVC), or MPEG-2 encoding formats are supported in all major resolutions from 480i through 1080p60. Output formats are IP/SPTS onto the NXG backplane for further NXG processing, including optional QAM modulation, DRM/CAS, or IPTV multicast/unicast output.

Ordering Information

Model	Stock #	Description
NXG-HDMI4	6774 2	4 Channel HDMI Encoder Module

Specifications

Input	
Connector	4x HDMI, Type "A"
HDMI Support	v1.4, v2.0, v2.0b
Video Resolution	480i (59.94, 60 FPS) 480p (29.97, 30 FPS) 720p (29.97, 30, 59.94, 60 FPS) 1080i (59.94, 59.94, 60 FPS) 1080p (29.97, 30, 59.94, 60 FPS)
Audio	
Input Format	PCM Raw (L-PCM, IEC-60958, @ up to 192 kHz)
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)
Power	DC via NXG Mainframe Backplane
Power Consumption	20 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

Output Encoding	
UDP	SPTS to NXG Mainframe Backplane
TS Format	ISO 13818-1 SPTS on UDP/IP
Video	
Video Format	MPEG-2, H.264 (AVC), H.265 (HEVC)
Video Resolution	1080p (29.97, 30, 59.94, 60 FPS) 1080i (59.94, 60 FPS) 720p (29.97, 30, 59.94, 60 FPS) 480i (29.97, 30, 59.94, 60 FPS)
Video Bit Rates	2 Mbps to 19 Mbps (0.1 Mbps increments)
Audio	
Audio Codecs	Dolby® AC3, AAC, MP3
Audio Bit Rates	128, 192, 256, 384 Kbps

Alarms & Monitoring	
Front Panel	1x Status LED (Bicolor)

NXG-SDI4

4 Channel SDI Encoder Module



Key Features

- » Encode SD-/HD-/3G-SDI sources for custom IP & RF distribution
- » 4 channels of locally sourced content via 4 SDI inputs
- » Encoding to H.265 (HEVC), H.264 (AVC), or MPEG-2
- » Dolby® Digital Audio (AC3), AAC, and MP3 support
- » High video encoding quality levels at low bit rates

Product Overview

The **NXG-SDI4** module will encode up to 4 channels in MPEG-2, H.264 (AVC), or H.265 (HEVC) video to IP SPTS onto the NXG mainframe backplane for further NXG processing with optional QAM modulation, DRM/CAS, or IPTV multicast or unicast output.

The **NXG-SDI4** will accept 4 SD-/HD-/3G-SDI input sources. All major resolutions are supported, 480i up to 1080p60. The NXG-SDI4 Encoder will also encode audio to AC3 (Dolby Digital), AAC, and MP3 formats.

Ordering Information

Model	Stock #	Description
NXG-SDI4	6734	4 Channel SDI Encoder Module

Specifications

Input	
Connector	4x BNC SDI
SD-SDI	
Bit Rate	270 Mbps
Video Resolution	480i (59.94, 60 FPS)
HD-SDI	
Bit Rate	1.485 & 1.485/1.001 Gbps
Video Resolution	720p (29.97, 30, 59.94, 60 FPS) 1080i (59.94, 60 FPS) 1080p (29.97, 30, 59.94, 60 FPS)
3G-SDI	
Bit Rate	2.97 & 2.97/1.001 Gbps
Video Resolution	1080p (29.97, 30, 59.94, 60 FPS)
Level	A/B
Audio	
Input Format	PCM Raw (L-PCM, IEC-60958, @ up to 192 kHz)

Alarms & Monitoring

Front Panel	1x Status LED (Bicolor)
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Output Encoding

UDP	SPTS to NXG Mainframe Backplane
TS Format	ISO 13818-1 SPTS on UDP/IP
Video	
Video Format	MPEG-2, H.264 (AVC), H.265 (HEVC)
Video Resolution	1080p (29.97, 30, 59.94, 60 FPS) 1080i (59.94, 60 FPS) 720p (29.97, 30, 59.94, 60 FPS) 480i (29.97, 30, 59.94, 60 FPS)
Video Bit Rates	2 Mbps to 19 Mbps (0.1 Mbps increments)
Audio	
Audio Codecs	Dolby® Digital AC3, AAC, MP3
Audio Bit Rates	128, 192, 256, 384 Kbps

General

Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	20 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

NXG-EAS

Emergency Alert System (EAS) Module - 1 Zone

Key Features



- » SCTE-18 compliant
- » One module required for each EAS zone
- » Supports Standard Geographical Classification (SGC) codes to utilize SCTE-18 for Canadian EAS IP applications
- » EAS start/end test capability
- » Supports up to 512 programs for EAS broadcast

Product Overview

The **NXG-EAS** module is a scalable and cost-effective solution allowing video service providers to deliver next generation video content and SCTE compliant EAS messaging to hospitality locations.

Each NXG-EAS module handles one EAS zone, permitting up to 512 SPTS in a single NXG system to service multiple properties with targeted messages by using multiple EAS and IP, or QAM output modules. The IP transport streams are routed to the NXG backplane for further IP or RF distribution.

Ordering Information

Model	Stock #	Description
NXG-EAS	6778	Emergency Alert System (EAS) Module - 1 Zone

Specifications

Input	
IP	SPTS from NXG Mainframe Backplane
Addressing	Multicast (v2, v3) or Unicast

Alarms & Monitoring	
Front Panel	1x Status LED (Bicolor)

Output Encoding	
IP	SPTS to NXG Mainframe Backplane

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	20 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

NXG-EPG

Electronic Program Guide Module



Key Features

- » Guide theme options with easy-to-use GUI to enhance User experience
- » Customizable with property or company logo
- » Utilizes gracenote IDs (TMS) guide data source file
- » Supports .jpg banner advertisements for ad revenue
- » Enhances Guest experience

Product Overview

The **NXG-EPG** module allows the content service provider to offer a custom program guide for the property's unique channel lineup. The NXG-EPG module can be configured to input a gracenote IDs (TMS) guide data source file from gracenote.

The NXG-EPG provides an easy way for guests to find their favorite TV content through a scrolling grid-based list instead of channel surfing, improving the Guests overall TV experience.

Ordering Information

Model	Stock #	Description
NXG-EPG	6790	Electronic Program Guide Module

Specifications

Input

Guide Data	From Service Provider via NXG Master Controller Module - 1 Gb RJ45 Port
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Alarms & Monitoring

Front Panel	1x Status LED (Bicolor)
Remote Monitoring & Control	NXG Controller Webpage Interface

General

Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	11 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

Example Theme / Layout Options

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NXG-PI-IP-S

Secure Pro:Idiom® Encryption Module for IP (SPTS)

Key Features



- » Adds digital content protection for IP video delivery
- » Supports SPTS format
- » Reliable, secure way to protect digital HD content
- » Supports up to 144 programs w/ Pro:Idiom® license

Product Overview

The **NXG-PI-IP-S** adds Pro:Idiom® encryption digital content protection to HDTV signals. The NXG-PI-IP-S module inputs MPEG-compliant transport streams through the NXG IP backplane to add Pro:Idiom encryption to a single program transport stream (SPTS) format. The Pro:Idiom encrypted video content is routed via the NXG IP backplane to the desired IP outputs for distribution.

The Pro:Idiom encryption is compatible with existing Pro:Idiom decryption devices, such as TV and set-top-boxes most commonly used in Hospitality locations.

Ordering Information

Model	Stock #	Description
NXG-PI-IP-S	6793 S	Secure Pro:Idiom® Encryption Module for IP (SPTS); 72 Programs
NXG-PI-LIC	6779	License to add 72 more programs for a total of 144

Specifications

Input		Output Encoding	
IP	2.2 Gb Clear SPTS from NXG Mainframe Backplane	IP	2.2 Gb Pro:Idiom® SPTS to NXG Mainframe Backplane
General		Alarms & Monitoring	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)	Front Panel	1x Status LED (Bicolor)
Power	DC via NXG Mainframe Backplane		
Power Consumption	13 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		

NXG-PI-QAM-S

Secure Pro:Idiom® Encryption Module for QAM (MPTS)

Key Features



- » Adds digital content protection for QAM video delivery
- » Supports SPTS format
- » Reliable, secure way to protect digital HD content
- » Supports up to 144 programs w/ Pro:Idiom® license

Product Overview

The **NXG-PI-QAM-S** inputs MPEG-compliant transport streams through the NXG IP backplane to add Pro:Idiom encryption to a multiple program transport stream (MPTS) format. The Pro:Idiom encrypted video content is routed via the NXG IP backplane to the desired QAM outputs for distribution. The

NXG-PI-QAM is designed for compatibility with only the NXG QAM Modulator module.

The Pro:Idiom encryption is compatible with existing Pro:Idiom decryption devices, such as TV and set-top-boxes most commonly used in Hospitality locations.

Ordering Information

Model	Stock #	Description
NXG-PI-QAM-S	6793 QS	Secure Pro:Idiom® Encryption Module for QAM (MPTS); 72 Programs
NXG-PI-LIC	6779	License to add 72 more programs for a total of 144

Specifications

Input	
IP	2.2 Gb Clear MPTS from QAM Modulator module

Output Encoding	
IP	2.2 Gb Pro:Idiom® MPTS to QAM Modulator module

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	13 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)

NXG-QAM32-ProIdiom-PT

Pro:Idiom® Pass-Through Module



Key Features

- » Reliable, secure HD programming
- » Up to 3 audio streams; up to 11 extra PIDs per program
- » Configurable with both HD and SD programming
- » Ability to change PSIP information
- » Provides fully independent QAM channels
(no QAM channel blocks)
- » Supports MPEG-2, H.264 (AVC), and H.265 (HEVC) video
- » Multiplexes SPTS programs to MPTS for QAM output

Product Overview

The **NXG-QAM32-ProIdiom-PT** module is a multi-channel QAM modulator that provides up to 32 QAM-256 channels, while supporting IP Pro:Idiom encryption pass-through to QAM. All 32 output channels are fully agile from 54 to 1002 MHz, with the requirement that all channels must be within a 768 MHz frequency span.

Each program can be configured to support a customized channel lineup for desired locations.

Ordering Information

Model	Stock #	Description
NXG-QAM32-ProIdiom-PT	6785 1	Pro:Idiom® Pass-Through Module

Specifications

Input	
Bandwidth	2.2 Gb transport streams from the NXG Mainframe Backplane

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	32 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 Out Test (-20 dB) Connector

Output	
QAM	
Connector	1x "F" Female (front-panel; for combined output)
Modulation	QAM-256
Standards	ITU-T J.83; Annex A and B
DVB Symbol Rate	Variable; ≤ 7 MSymbol/sec (MBaud)
Frequency Range	54 to 1002 MHz (all Ch.'s ≤ 768 MHz)
Tuning	CATV Channel Selectable (Ch. 2 - 158)
RF Level	+45 dBmV (per channel)
Output Level Range	30 to 45 dBmV (all configured channels)
Freq. Tolerance	± 0.5 kHz @ 77 °F (25 °C)
Freq. Stability	± 5 kHz over 32 to 122 °F (0 to 50 °C)
Amplitude Flatness	± 0.25 dB (over 6 MHz channel)
Phase Noise	-98 dBc (@ 10 kHz)
Spurious	-60 dBc
Impedance	75 Ω
Return Loss	14 dB typical
SNR	40 dB typical
MER	39 dB typical
I/Q Phase Error	Less than 1 degree
I/Q Amplitude Imbalance	Less than 1%

Related Product

Model	Stock #	Description
NXG-32CH-QM	6785	QAM Output Module; 32 Agile QAM Carriers

NXG-32CH-QM

32 Channel QAM Output Module



Key Features

- » Reliable, secure HD programming
- » Up to 3 audio streams; up to 11 extra PIDs per program
- » Configurable with both HD and SD programming
- » Ability to change PSIP information
- » Provides fully independent QAM channels
(no QAM channel blocks)
- » Supports MPEG-2, H.264 (AVC), and H.265 (HEVC) video
- » Multiplexes SPTS programs to MPTS for QAM output

Product Overview

The **NXG-32CH-QM** module is a multi-channel QAM modulator that provides up to 32 QAM-256 channels. All 32 output channels are fully agile from 54 to 1002 MHz, with the requirement that all channels must be within a 768 MHz frequency span.

Each program can be configured to support a customized channel lineup for desired locations.

Ordering Information

Model	Stock #	Description
NXG-32CH-QM	6785	QAM Output Module; 32 Agile QAM Carriers

Specifications

Input

Bandwidth	2.2 Gb transport streams from the NXG Mainframe Backplane
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General

Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	32 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 Out Test (-20 dB) Connector

Output

QAM	
Connector	1x "F" Female (front-panel; for combined output)
Modulation	QAM-256
Standards	ITU-T J.83; Annex A and B
DVB Symbol Rate	Variable; ≤ 7 MSymbol/sec (Mbaud)
Frequency Range	54 to 1002 MHz (all Ch.'s ≤ 768 MHz)
Tuning	CATV Channel Selectable (Ch. 2 - 158)
RF Level	+45 dBmV (per channel)
Output Level Range	30 to 45 dBmV (all configured channels)
Freq. Tolerance	± 0.5 kHz @ 77 °F (25 °C)
Freq. Stability	± 5 kHz over 32 to 122 °F (0 to 50 °C)
Amplitude Flatness	± 0.25 dB (over 6 MHz channel)
Phase Noise	-98 dBc (@ 10 kHz)
Spurious	-60 dBc
Impedance	75 Ω
Return Loss	14 dB typical
SNR	40 dB typical
MER	39 dB typical
I/Q Phase Error	Less than 1 degree
I/Q Amplitude Imbalance	Less than 1%

Related Product

Model	Stock #	Description
NXG-QAM32-ProIdiom-PT	6785 1	Pro:Idiom® Pass-Through Module; 32 Agile QAM Carriers

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

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	
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 7.0 x 15.5 in (29 x 178 x 394 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 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 Output	
Audio	Monaural (from primary audio input)

NXG-BTCrypt-S

Secure AES-128 Output Encryption Module



Key Features

- » Standardized AES-128 encryption to quality content
- » Protects content to the viewing location
- » Compliant with Service Operator policies
- » Supports custom integration projects

Product Overview

The **NXG-BTCrypt-S** module creates a standardized AES-128 encryption to the output content for the NXG digital video platform. It encrypts single program MPEG-2 IP transport streams pulled off the NXG backplane. The NXG-BTCrypt-S supports the output of up to 256 SPTS channels per each front panel RJ45 GbE ports 1 & 2; ports 3 & 4 are reserved.

BT Labs' managed AES-128 output encryption module can be used to provide a secure IP connection to other vendor's networking equipment or to provide scrambled content all the way to viewing locations. The NXG-BTCrypt-S can support fixed, rotating, or custom key exchange.

Ordering Information

Model	Stock #	Description
NXG-BTCRYPT-S	6776 S	Secure AES-128 Output Encryption Module

Specifications

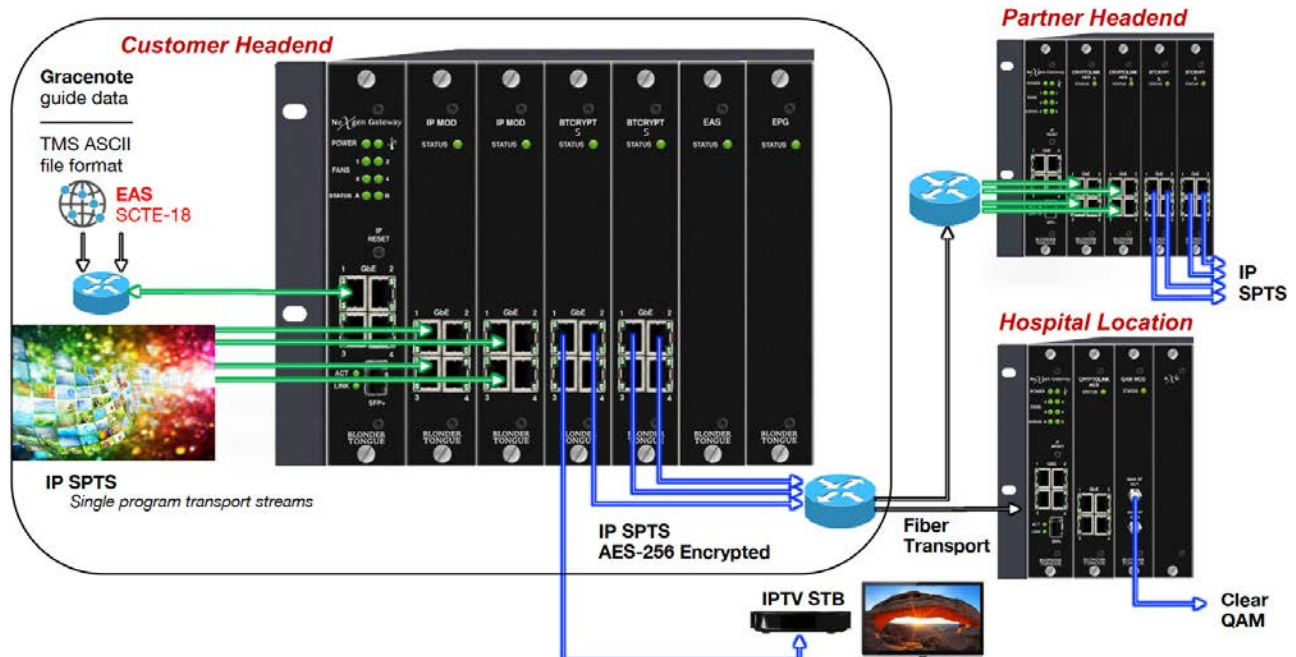
Input	
IP	2.5 Gb from NXG Mainframe Backplane
Video	MPEG-1, MPEG-2, MPEG-4, H.264 (AVC), H.265 (HEVC), Digicipher II
Audio	MPEG1, MPEG2, ADTS, AC3, E-AC3/AC3+

General	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	11 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

Output	
Standard	2x 1Gb RJ45 Ports (1 & 2)
TS Packet Length	All Formats Content Encrypted
Addressing	Multicast or Unicast
MPEG TS	SPTS

Alarms & Monitoring	
Front Panel	1x Status LED (Bicolor)

NXG AES Encryption / Decryption Examples:



NXG-WMB

Wall Mount Bracket

Key Features

- » 6RU - holds an extra 1RU device, such as a BT-CMTS Series unit
- » Mounts to wall either horizontally or vertically
- » Completely vented to maximize air flow for heat dissipation

Horizontally Mounted



Vertically Mounted



Product Overview

The **NXG-WMB** provides users with a convenient installation solution when 19 inches of rack space is not available. The NXG-WMB can be fastened to a wall in either a horizontal, or vertical module configuration. Mounting holes are easily accessible eliminating any need for installation templates.

Ordering Information

Model	Stock #	Description
NXG-WMB	6742	Wall Mount Bracket for NXG-MFR

Specifications

General

Dimensions (W x H x D) 19.2 x 11.2 x 11.2 in (487 x 284 x 284 mm)

Shipping Weight 9.0 lbs (4.08 kg)

6RU - holds an extra 1RU device, such as a BT-CMTS Series unit



Top View when Vertically Mounted

SDV-HUB

Switch Digital Video Hub

Key Features

- » Communicates with up to 4 tuning adapters
- » Supports up to 24 Switch Digital Services (programs)
- » Supports Tuning Resolver Interface specification



Product Overview

The **SDV-HUB** is a 1RU device made to support up to 4 third-party tuning adapters. Each tuning adapter can support up to 6 switch digital services for a total of 24 programs in a custom channel lineup.

The SDV-HUB connects to the NXG Master Controller module via the GbE RJ45 port, providing a communication link to the NXG CableCARD® module.

Switch Digital Programs for viewing can be selected in the NXG CableCARD module user interface.

Ordering Information

Model	Stock #	Description
SDV-HUB	6744	Switch Digital Video Hub

Specifications

Input / Output

Connectors	1x RJ45 (10/100/1000 Base-T) 2x USB 2.0 2x USB 3.0
IP	1 GbE - NXG Master Controller Module

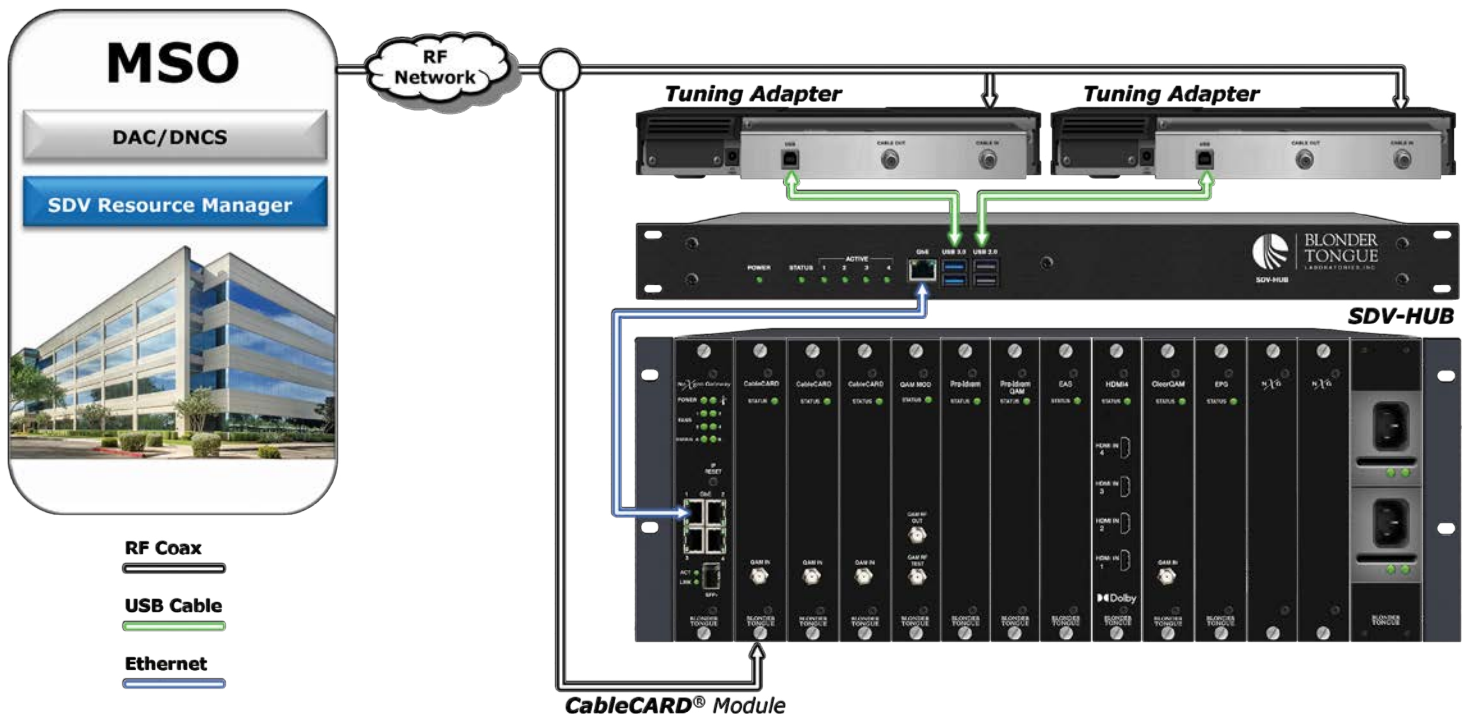
Monitoring & Control

Front Panel	1x Power LED 1x Status LED 4x Active LEDs
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General

Dimensions (W x H x D)	19.0 x 1.75 x 10.0 in (483 x 44 x 254 mm)
Power (External Power Supply)	100-240 VAC Input 12V DC @ 3.0A Output
Power Consumption	5 W
Weight	3.0 lbs (1.36 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

Switch Digital Video Hub Application



Blonder Tongue



Provided by: Mega Hertz | 800-883-8839 | info@go2mhz.com | www.go2mhz.com

<https://www.go2mhz.com/product/nxg-digital-video-platform/>

