

NXG-EDGE MAX KIT

FLEXIBLE EDGE VIDEO DELIVERY PLATFORM

APPLICATIONS AND CONFIGURATIONS

- » IP Edge QAM from SFP+ or Gigabit Ethernet Sources for Fiber-to-the-Home (FTTH) Solutions with RF Properties
- » QAM to IP with Multicast or Unicast Support for Low-Density RF Endpoints
- » IP to IP with Multicast Translation or Unicast Termination for Fiber-to-the-Premises (FTTP) Solutions with IP Properties
- » Wide Range of DRM & Encryption/Decryption Options Provide Flexibility at both Initial Install and Future Requirements Changes



KEY FEATURES

- » 3RU form factor Chassis Supports 4 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

PRELIMINARY
SUBJECT TO CHANGE

PRODUCT OVERVIEW

The **NXG-EDGE MAX** System Kit is the 3 RU version of the Blonder Tongue NXG Platform, designed and priced for Edge video delivery. Each NXG-EDGE MAX System comes equipped with a mainframe chassis, controller module including IP input or output capability, and enterprise-class hot-swappable power supplies. Customers can purchase up to 4 existing NXG input, output, or processing modules to create individually customized solutions for each deployment.

NXG-EDGE MAX KIT

SPECIFICATIONS



CONTROLLER SPECIFICATIONS

INPUT / OUTPUT	
DATA PORTS	
Gigabit Ethernet	4x RJ45 GigE for Control & IP Input <i>or</i> Output
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

3RU MAINFRAME POWER & BACKPLANE SPECIFICATIONS

GENERAL - MAINFRAME BACKPLANE	
Dimensions (W x H x D)	19.0 x 5.25 x 14.5 in (483 x 134 x 368 mm)
Weight	14.5 lbs (6.57 kg)
Power	100-240 VAC
Power Consumption	16 W (Master Controller Only)
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

GENERAL - POWER SUPPLY UNIT	
Dimensions (W x H x D)	2.15 x 1.57 x 9.0 in (54.5 x 40 x 228 mm)
Weight	1.8 lbs (0.81 kg)
Power	In 100-240 VAC; 9A; 50/60 Hz Out 12 VDC; 54.2A; 450 W Max
Power Consumption	450 W (Each Power Supply)
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

3RU MAINFRAME BACKPLANE FEATURES:

- ↳ 15 Gbps Capacity; 2.5 Gb Bi-directional to each individual NXG Module
- ↳ 4 Module Slots Configurable to Your Application
- ↳ Front to Back Airflow
- ↳ Cleanable / Replaceable Air Filters

POWER SUPPLY UNIT FEATURES:

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

OPTIONAL DRM, ENCRYPTION / DECRYPTION

- ↳ Pro:Idiom® Bulk Content Encryption
- ↳ TiVo / Widevine Bulk DRM Descrambling
- ↳ Innovative Systems InnoCrypt Bulk Descrambling
- ↳ Customized AES Compliant Encryption/Decryption for Private Network Deployment Architectures

- ↳ Unicast with MPEG-DASH Termination
- ↳ Various Multicast Configurations Supported

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CONTROLLER MODULE OVERVIEW



CONTROLLER MODULE

- ← 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 Control & IP Input *or* Output
- ← 1x 10 GigE SFP+ data port, with status indicators, for distribution of IP streams and remote monitoring & control

THE CONTROLLER MODULE IS AN INDUSTRIAL ETHERNET SWITCH SUPPORTING:

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

CONTROLLER FEATURES:

- ↳ 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

ORDERING INFORMATION



MODEL	STOCK #	DESCRIPTION
NXG-EDGE MAX Kit	6739	1x Mainframe Chassis (3RU, 4 module slot, 15Gb Capacity IP Backplane), 1x Controller Module (Controls Entire NXG Platform), 2x Power Supplies (required for Redundancy; Hot-Swappable)