NXG-EDGE MAX KIT
FLEXIBLE EDGE VIDEO DELIVERY PLATFORM

PRELIMINARY
SUBJECT TO CHANGE

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

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.

CONTROLLER SPECIFICATIONS

INPUT / OUTPUT	
DATA PORTS	
Gigabit Ethernet	4x RJ45 GigE for Control & IP Input *or* 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 ℃)
Storage Temp.	-13 to 158 °F (-25 to 70 ℃)
Operating / Storage Humidity	0 to 95% RH @ 35 ℃ 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 ℃)
Storage Temp.	40 to 158 °F (-40 to 70 ℃)
Operating/Storage Humidity	5 to 96% RH @ 45 ℃ max, non-condensing

3RU MAINFRAME BACKPLANE FEATURES:

» 20 Gbps Capacity; 2.5 Gb Bi-directional to each individual NXG Module

» 4 Module Slots Configurable to Your Application

» Front to Back Airflow

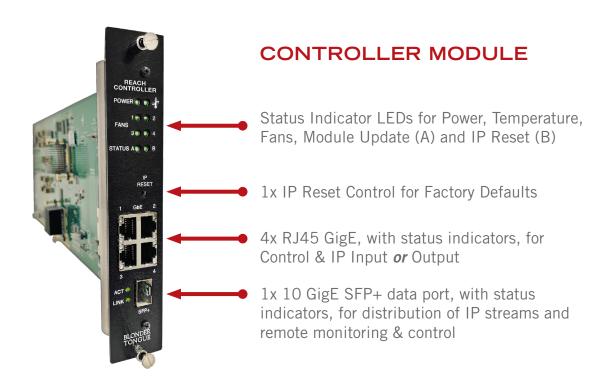**POWER SUPPLY UNIT FEATURES:**

» 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

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

» 802.1q VLAN Switch with 32K MACs and 4K VLANs

» Full Management of Layer 2 and Layer 3 Forwarding

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

MADE IN USA

MODEL	STOCK#	DESCRIPTION
NXG-EDGE MAX Kit	**6739**	1x Mainframe Chassis (3RU, 4 module slot, 20Gb Capacity IP Backplane), 1x Controller Module (Controls Entire NXG Platform), 2x Power Supplies (required for Redundancy; Hot-Swappable)

REV: 081823