

IBU-160*i*

Intelligent Time Code Distribution Amplifier



Features

- Network Enabled Time Code
 Distribution Amplifier
- Dual Time Code Inputs with Auto
 Failover
- Support for Analog Time Codes
 between 100Hz and 100KHz

The IBU-160i is a general-purpose frequency distribution amplifier designed for use with Brandywine high precision time sources.

The IBU-160i is contained in a compact IU rackmount chassis. The IBU accepts two sets of inputs, comprising the reference input (100 Hz – 100 KHz) and status from the source. The IBU provides automatic changeover should one of the on-line source inputs fail. Manual source select override is available on the front panel, or through the Ethernet interface.

A variety of status indicators are located on the front panel for instant visual feedback, together with manual controls for source selection.

- Programmable per channel amplitude
- 1U 19" rack mount
- Redundant Hot Swappable Power Supplies

A 10/100 base T Ethernet interface provides full control over the functionality of the system, including reference selection and output amplitude (on a per channel basis).

User control of the unit is via a built-in Web Browser with user-friendly graphical interface, or via SNMP for system applications.

Applications for the IBU-160i include test ranges, satellite control centers, shipboard time distribution, airports, rail terminals, and any system requiring highly reliable time code distribution.

brandywine communication/

IBU-160i Specifications

Time Code Inputs Frequency Range

Typical Time Codes

Amplitude & Impedance Input Isolation

Number of Inputs Connector Type Input Selection

Fault Inputs

Number of Inputs Signal Type Active Level

Action

Time Code Outputs

Number of Outputs Format

Output Level

Connector Type Output Isolation

Network Interface

Interface Type Protocols Connector **Console Port** Interface Type Parameters Connector

Display

Display Type Functions Analog Time Code 100 Hz – 100 KHz IRIG A, B, E, G, NASA 36, XR3, AFNOR 0.5-10Vp-p, 600 Ω Transformer coupled

2 BNC Manual, Auto

2 TTL Selectable for active high or low Forces on-line changeover

16 Same as Input 100 Hz – 100 Khz 1Vp-p to +5Vp-p, shortcircuit proof BNC Transformer Isolated

10/100 base T HTTP, DHCP, IPV4 RJ45

RS232 115200, N, 8, 1 DB9

16 bicolor LED Output status, Ethernet settings

Status Output (Alarm)TypeDry relay form C contacts
Ethernet SNMP trapAlarm FunctionSummary of all input/output
alarms (relay)

Power Redundancy

Voltage

Power Consumption

Environmental and Safety

Temperature Operating Storage Product Safety

EMC

-10 to +55°C non condensing -40 to +85°C EN60950-1: 2006 + A11-2009 +A1:2010 A12:2011 AS/NZS 60950-1:2011 EN55022 Class A EN50082-2 FCC Chapter 15 Class A

Individual input, output, power

Single supply maintains complete

90-240 VAC 50/60Hz (std)

18-36V DC Optional

36-72VDC Optional

(Ethernet)

unit

<15W

Dual redundant

Ordering Information

Basic Unit Includes Dual AC Power Supplies0190010012 input, 16 output IBU-160iPower Options (order separately)019001002Substitute 18-36 DC power for AC019001003Substitute 36-72 DC power for AC

Related Products:

 FDU-160i:
 2 i/p 10MHz, 16 output 10MHz Low Noise

 FDA-160i:
 2 i/p , 16 output 1-20MHz wideband

The IBU-160i may be used with many of Brandywine's precision time code sources such as the NFS220, or RTG-510 for distribution of precision time code outputs.

© Brandywine Communications 2014