

IBU-240

Timing Distribution Unit



- Wide Input Bandwidth
- Input Isolation
- Automatic & Manual Changeover
- Transformer Coupled Outputs
- Twenty four Outputs
- Front Panel Status Indicators
- Fault Discrete Inputs
- Compact 1U, 19" rack mount

The Brandywine Communications Model IBU-240 offers the user modern, often requested and reliable time code distribution features. The base unit outputs twenty-four time code outputs that are transformer-coupled from the rear panel connectors to the transfer switch. Each output is a faithful reproduction of the time code input.

A three-position front panel switch chooses automatic operation or may be used to manually select one of the two input sources. When the AUTO mode is selected the AUTO indicator will be illuminated and Input A will be used if it is available. Should Input A fail Input B will be chosen automatically. Indicators show the status of the inputs and which input has been selected.

Each of the twenty-four outputs is monitored. Should an output fail a group alarm Fault indicator will illuminate.

A front panel Power indicator is also provided.

The IBU-240 is packaged in a lightweight, 1U chassis complete with an integral power supply.

Rear panel input Fault Discrete signals allow external equipment to force the outputs to be derived from either input source.

Applications for the Model IBU-240 include reliable signal distribution in systems designed for satellite ground stations, secure military communications and range timing.

IBU-240 Specifications

Time Code Inputs

Connector	Two rear panel BNC's
Amplitude	4 V _{rpp}
Input Impedance	600 Ohms, transformer isolated
Frequency	300 Hz to 50 kHz

Fault Discrete Input

Number of Inputs	2
Connector	DB9
Level	TTL
Active level	Link selectable, high or low

Time Code Outputs

Number of Outputs	24
Connector	BNC
Amplitude	Same as input
Isolation	Transformer coupled
Output impedance	600 Ohms
Output protection	Short-circuit proof

Fault Sense & Transfer

Modes	Automatic and Manual
Manual	Selects input A or Input B
Auto	Provides automatic switch from A to B should input A fail

Indicators

Power	Green LED
Auto mode selected	Green LED
Input A-B selected	Green LED's, two
Input A-B available	Green LED's, two
Fault	Red LED

Environmental-Physical-Power

Temperature	
Operating	0 to + 50°C
Storage	-40 to +85°C
Humidity	To 95% non-condensing
Power	115/230 Vac 50/50 Hz, <25 W
Optional Power	18-36 Vdc, 36-72 Vdc, -48Vdc
Dimensions	19 inch Rack Mount, 1.73 inches high (1U) 14.5 inches deep
Weight	7.5 lb typical
EMC Emission	To EN50081-1 as EN55022
EMC Immunity	To EN50082-1 as EN1000-4-2 ESD, IEC 801-3 HF Field, IEC 801-4 Burst