PTU2 Rack Mounting 2 Channel

The JDA Systems PTU2 rack mounted 2 channel telemetry system contains a dual channel bit sync, decom, encoder/generator, data processor and router with full VuSoft software installed to offer IRIG 106 Chapter 4, Chapter 8, Chapter 9 and Chapter 10 support in a 19 inch rack mounting form factor and can be delivered with our without the optional front panel touch screen monitor.

The rugged aluminum chassis contains everything needed to recover and process dual PCM signals directly from receivers, encoders or recorder replay. The two inbuilt high performance bit synchronizers and decoms operate independently to allow for the processing of two data streams whether they come from the same source or are completely independent. The PTU2 has been specifically designed for low power consumption and low heat dissipation which make it ideal for remote or on board applications.

As the PTU2 is fitted with a full suite of computer interfaces so it is possible to connect a mouse, keyboard and display directly to the unit, or of course to fully remote control the unit over the built in gigabit Ethernet interface.

A built in solid state disk, that contains the operating systems and any user data, can easily be removed for declassification of the PTU2.

The PTU2 can act optionally as a data server and an IRIG106 Chapter 10 recorder and replay device with it standard suite of VuSoft software and can serve Chapter 10 broadcast data over the built in gigabit Ethernet interface.

PTU2 Rack Mounting 2 Channel (Shown with optional monitor)

PTU2 Rack Mounting 2 Channel Features

- Supports the IRIG Standards Including Chapters 4, 7, 8, 9 & 10
- Full Telemetry Ground Station Functionality From Receiver O/P to Post Processing
- Dual Independent Bit Sync & Decom Channels For High Speed Operation
- Real Time and Playback Data Regeneration and Network Broadcast Capability
- Low Power Operation with Low Heat Generation
- 19 inch Rack Mounting Form Factor
- Fitted With a Professional Grade Intel Processor
- Customizable To Support Customer Unique Applications

Bit Sync Characteristics

Data Polarity	Normal or Inverted
Input Bit Rate	100 bps to 15 Mbps (Optionally 32Mbps)
Input Code Types	NRZ-L/M/S, BIO-L/M/S, DM-M/S, RNRZ/RNRZR-9/11/15/17/23
Output Code Type	NRZ-L BNC & Internal
Loop Bandwidth	Digital Fully Automatic
Acquisition Range	Digital Fully Automatic
Tracking Range	Digital Fully Automatic
Bit Error Probability	Within 1db to Theoretical
Loop Bandwidth	Automatic Full Digital
Tracking Range	Automatic Full Digital
Clock Format	0 Degree and 180 Degree

PCM Data Characteristics

IRIG 106 Types:	Chapter 4 (Optionally Chapter 7, Chapter 8, Chapter 10)
Bit Rate:	100 bps to 32 Mbps Maximum
Serial Input	RS422 (differential) & TTL(0-5V)
Serial Output	RS422 (differential) & TTL(0-5V)
Time Sources	IRIG A and B
Time Resolution	Internal 100 nSec
Time Accuracy	Better than 1 uSec
Frame & SubFrame	Word/Frame >8912, Frame/Format >1024

Power Requirements

Input Voltage:	96 to 260 VAC 50 or 60 Hz
Maximum Power:	350W

Mechanical

Material:	Chemically Coated Aluminum
Dimensions:	482.6 x 177.8(4U) x 282.0 mm (WxHxD)
	482.6 x 311.2(7U) x 282.0 mm (WxHxD) (Optional 15 Inch Monitor Fitted)
Weight:	Approx 12 kg
Data Connectors:	BNC & Differential BNC

Environmental

Temperature (Operating):	-20°C to +60°C
Acceleration:	100 g, 3 Axes
Altitude:	30,000 m
Humidity:	Up to 100% Non Condensing