

PTU3 Portable 2 Channel

The JDA Systems PTU3 portable 2 channel telemetry system contains an optional dual channel All Band direct conversion Receiver, 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 small portable form factor with a panel touch screen monitor and a removeable keyboard/mouse.

The rugged composite chassis contains everything needed to receive, recover and process dual PCM signals directly from antennas, external receivers, encoders or recorder replay. It has a built-in monitor, keyboard and touch pad. 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 PTU3 has been specifically designed for low power consumption and low heat dissipation which make it ideal for remote or on difficult applications.

As the PTU3 is fitted with a full suite of computer interfaces so it is possible to connect an external 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 disks is included, contains the operating systems and the user data, external data storage devices are also supported.

The PTU3 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 or TMOIP over the built in gigabit Ethernet interface.



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PTU3 Portable 2 Channel Features

- Optional All band RF TIER0, TIER1 and optional TIER2 reception
- Supports the IRIG Standards Including Chapters 4, 7, 8, 9 & 10
- Full Telemetry Ground Station Functionality From Receiver 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
- Fitted With a Professional Grade Intel Processor
- Customizable To Support Customer Unique Applications

Normal or Inverted

100 bps to 40 Mbps

Digital Fully Automatic

Digital Fully Automatic Digital Fully Automatic

Automatic Full Digital Automatic Full Digital

Within 1db to Theoretical

0 Degree and 180 Degree

Receiver Characteristics (Optional)

Frequency Range Types Bit Rate Input Code Types Channels 70MHz to 6GHz Direct Conversion TIER0 & TIER1 with optional TIER2 100 bps to 20 Mbps NRZ-L/M/S, BIO-L/M/S, RNRZ/RNRZR-9/11/15/17/23 Dual Channel One Frequency

NRZ-L/M/S, BIO-L/M/S, RNRZ/RNRZR-9/11/15/17/23 NRZ-L BNC & Internal

Bit Sync Characteristics

Data Polarity Input Bit Rate Input Code Types Output Code Type Loop Bandwidth Acquisition Range Bit Error Probability Loop Bandwidth Tracking Range Clock Format

PCM Data Characteristics

IRIG 106 Types: Bit Rate: Serial Input Serial Output Time Sources Time Resolution Time Accuracy Frame & SubFrame

Power Requirements

Input Voltage: Nominal Power:

Mechanical

Material: Dimensions: Weight: Data Connectors:

nvironmontal

Temperature (Operating):-20Acceleration:100Altitude:30,Humidity:Up

Chapter 4 (Optionally Chapter 7, Chapter 8, Chapter 10) 100 bps to 32 Mbps Per Channel (80 Mbps combined) RS422 (differential) & TTL(0-5V) RS422 (differential) & TTL(0-5V) IRIG A and B Internal 100 nSec Better than 1 uSec Word/Frame >8912, Frame/Format >1024

96 to 260 VAC 50 or 60 Hz 180W

Composite Plastics 350 x 295 x 150 mm (WxHxD) Approx. 7 kg SMA, BNC & Differential BNC

Environmental

-20°C to +60°C
100 g, 3 Axes
30,000 m
Up to 100% Non Condensing

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