

# VT-RE-17A Recorder CH7 Gateway

The JDA Systems VT-RE-17A Recorder CH7 Gateway 2 channel is an airborne Chapter10/11 data combiner, recorder, analyzer, data server and intelligent IRIG106 Chapter 7 compatible data router. It offers support for IRIG 106 Chapter 4, Chapter 10, Chapter 11 and Chapter 7 in a particularly small form factor able to withstand harsh environments.

The rugged milled aluminum case contains everything needed to gather data from numerous network based data sources and combine those for recording and data distribution. It contains a GPS based NTP/PTP time server to keep the remote data sources time synced. Support is provided for numerous RTSP network video streams, also up to four PCM telemetry signals can be fed directly to the recorder. The Recorder can generate up to four simultaneous IRIG106 Chapter 4, 7 and 8 data streams to be used locally or remotely over the available RF telemetry link. This link covers all standard telemetry rf band frequencies. The recorder accepts uplink IRIG106 Chapter 7 data streams for command and control, even being able to change the transmitted data selection, rates and RF frequencies on the fly.

Network support for pilot and engineering displays is available as standard

For local usage and setup the Recorder is fitted with a service USB 3.0 port 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.

Two removable built in solid state disks are fitted, one that contains the operating systems and another for the IRIG106 Chapter10/11 user data. Both can easily be removed for declassification of the unit.



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# **Input Data**

Network Data: Telemetry PCM: Network Video: Uplink Control:

#### **Output Data**

Network Data: Telemetry PCM: Data Storage: Data Server:

## **Supported Data Types**

Network Input: Network Output: Timing :

## **Bit Sync Characteristics**

Data Polarity: Input Bit Rate: Input Code Types: Output Code Type: Loop Bandwidth: Acquisition Range: Tracking 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: Frame & Subframe:

#### **Power Requirements**

Input Voltage: Maximum Power:

#### Mechanical

Material: Dimensions: Weight: Data Connectors: Network Connector: GPS Input DC Supply, On/Off:

Environmental

Acceleration: Altitude: Humidity:

Temperature (Operating): -40°C to +75°C Max. 100 g, 3 Axes 50,000 ft Up to 95% @ Any Temperature Forming Frost or Condensation

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Numerous Network Sources IRIG106 Chapter 10/11 Compatible Quad Bit Sync, Quad Decom Numerous RTSP Network Video Sources IRIG106 Chapter 7 Compatible

IRIG106 Chapter 10/11 Retransmission IRIG106 Chapter 4/7/8 Generation 2/4TB Removable Memory Media (RMM) > 200MBytes/Sec Network Based Support For Pilot and Engineering Displays

Complete Support For All Chapter10/11 Data Types IRIG106 Chapter10/11, DataExchanger Server/Client System Integrated NTP/PTP GPS Based, IRIG A, B, G Time Code Reader

Normal or Inverted 100 bps to 40 Mbps (Max) NRZ-L/M/S, BIO-L/M/S, DM-M/S, RNRZ/RNRZR-9/11/15/17/23 NRZ-L/M/S, BIO-L/M/S, DM-M/S, RNRZ/RNRZR-9/11/15/17/23 **Digital Fully Automatic** Digital Fully Automatic Digital Fully Automatic Within 1db to Theoretical Automatic Full Digital Automatic Full Digital 0 Degree and 180 Degree

Chapter 4, Chapter 7, Chapter 8, Chapter 10/11 100 bps to >32 Mbps RS422 (differential) & TTL(0-5V) RS422 (differential) & TTL(0-5V) GPS, NTP/PTP, IRIG A, B & G Internal 100 nSec Optionally extended to Word/Frame >8912, Frame/Format >1024

+28 VDC, Reverse Polarity Protected Max 8A

CNC Machined Chemically Coated Aluminum 240mm L (271mm with Handle) x 240mm W x 153mm H 5.8 kg 19 Pole Cannon M12 Phoenix Powered Antenna TNC Female Sealed Locking Toggle Switch