

DataHUB, an IRIG 106 Chapter 10 Plug-n-Play USB device, turns any PC into a 100% compliant recorder reproducer by natively creating and decoding PCM and time packet streams.

This small self-contained, low-cost portable device provides capabilities, accuracies and performance normally found in much more expensive traditional recorder reproducer systems.

A .NET Windows application, **DataHUB** Control Software (DCS) is provided along with a full API to expand the capabilities of this powerful yet flexible device.



- (2) PCM Inputs (TTL/RS422)
- (2) PCM Outputs (TTL/RS422)
- (1) IRIG-A/B/G Input (AM/DC)
- (1) IRIG-A/B/G Output (AM/DC)
- Internal GPS Receiver

- Internal IRIG-A/B/G TCG
- Record IRIG 106 CH10 Files
- Reproduce IRIG 106 CH10 Files
- Publish IRIG 106 CH10 UDP
- Optional (2) Channel Bit Sync

- Native IRIG106 Chapter 10 Compliancy - No Format Conversions
- USB Plug-n-Play; Any PC Can Be a Recorder/Reproducer, Anywhere
- Fully independent PCM/Time Input & Output Channels
- Completely Self Contained w/ GPS Receiver & IRIG TCG
- Low Cost/High Accuracy $\pm 1\mu\text{s}$ Time Tagging/Alignment
- Lab, Flightline, Range, Remote Test Facility, Mobile Uses
- Mobile Target Recorder Capabilities with Internal GPS

DataHUB Features

- **PCM Inputs/Outputs**
 - 20Mbps Per Channel, Fully Independent
 - TTL (BNC) or RS-422 (Triax)
 - 75Ω Termination, Others Available
 - NRZ-L/M/S, BIO-L/M/S, RNRZ-L
 - De-Randomize, Invert Data/Clock
 - Internal Loopback
- **IRIG Time Inputs/Outputs**
 - IRIG-A/B/G Per Input (AM or DC)
 - IRIG-A/B/G Time Code Generator
 - TCG Seed – External IRIG or Internal GPS
 - Internal Loopback
- **GPS Receiver**
 - NMEA 0183 & 1PPS (30nS) Output
- **Optional Bit Sync**
 - (2) Channels @ 20Mbps Each
 - De-Randomizer 9/11/15/17/23 Bit
 - NRZ-L/M/S, BIO-L/M/S, DM-M/S
- **Chapter 10 Record/Reproduce/Publish**
 - High Stability RTC
 - ± 1μ Second Time Tagging/Alignment
 - Throughput, Packed, Unpacked PCM
 - 16 or 32 Bit PCM Alignments
 - Selectable Sync Strategy
 - Fully Independent Record & Reproduce
 - IRIG-A/B/G or GPS UTC Time Packets
 - Full Chapter 6 Dot Command Support
 - Remote Command/Control

- Manual/Auto Setup
- TMATS Import/Export
- Replay Time Slider
- Loop Replay
- Goto Time/Index
- Action/Error Logging
- CH10 UDP Broadcast
- BER Testing Mode
- Live Preview
- Record Media Status
- CH10 Error Checking
- Full User API
- Packet Activity GUI
- Touch Screen Mode



Ordering Information

- **DH-2-2:** 2 PCM Input & 2 PCM Output Channels, IRIG-A/B/G Input & Output Channels
- **BS-2-2:** 2 Channels Digital Bit Sync, Mezzanine Card, 20Mbps
- ***DH-4-I:** 4 PCM Input Channels, IRIG-A/B/G Input & Output Channels
- ***DH-4-O:** 4 PCM Output Channels, IRIG-A/B/G Input & Output Channels

*Available on special order. DH-4-I Also available in PCM input comparator configuration.