DATATAP-10 FLIGHT TEST
FLIGHT TEST AND STANDARD EDITIONS

ASCB-D, Enhanced ASCB TX & Acqusition
ASCB A, B, and C Data Acquisition
Aircraft Data Bus Interface
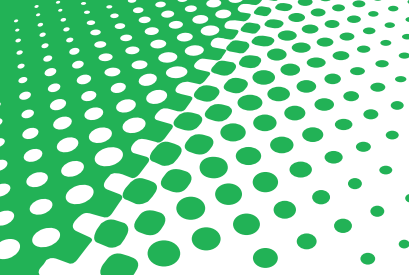Available with optional ARINC-429, AIRNC-717,
Dicrete I/O, and Analog Input

- **USB / Aircraft Powered**

- **Compatible with ICS FlightLine Acquisition-Software.**

- **Can be used as an ASCB bus analyzer on your laptop platform**

- **The latest in ICS Hardware based ASCB-D /Enhanced ASCB technology**

- **Available in RX Only and TX / RX versions**

KEY FEATURES AND BENEFITS:

- Full USB / aircraft Powered ASCB-D, Enhanced ASCB Bus Decoding, Recording, and Conversion to UDP Ethernet.

- ASCB-D and Enhanced ASCB transmission (optional) and reception on 4 buses.

- NIC, NIC PDD, Proc and Proc PDD functions all performed onboard DataTap 10 unit.

- Boots up Converting and/or Recording depending on BOOT time system.cfg file.

- Record two full ASCB-D buses to Laptop Drives via FlightLine SW at 7.1Gbytes / Hour.

- Removable on board storage to 128 GB for stand alone recording up to 18 hours.

- Optional Compact Flash Adapter for up to 256 GB of Storage and 36 hours of recording

- Convert over 8000 parameters to engineering units for UDP transmission in realtime

- Optional support for Dassault DIANE format UDP output.

- Remote Operation and Administration through TELNET interface.

- File Upload / Download through FTP interface, or μ SDHC memory cards.

- Supports 1000BaseT, 100BaseT and 10BaseT Ethernet

- Built In IRIG-B and IEEE-1588 PTP V2 time decoder for time synchronization. (free runs in absence if time code)

- USB or Optional 9-36 VDC Aircraft Powered <5 Watts power consumption

- Passively Cooled. No moving parts, -40°C to +85°C

- Weight: <1 lb in standard configuration Innovative

The DataTap 10 in both the Flight Test version and portable version is the smallest and most versatile ASCB platform in the world. The unit incorporates Dual NICs and dual PROC modules on one handheld platform. Transmission on both sides of the aircraft and reception and recording of both sides of the aircraft simultaneously is supported.

- Low Cost & Light Weight portable version also available.

- Rugged enclosure suitable for flight test applications. Passively Cooled. No moving parts, -40°C to +85°C

- The DataTap 10 can record entire ASCB-D bus over 120000 parameters in real-time to both internal memory AND to a host Disk Drive over Ethernet simultaneously.

- DataTap 10 design is done entirely in embedded hardware / software. Most processing is done in a XILINX FPGA device implemented in VHDL.

- The majority of the ASCB-D data processing is done in real-time in hardware using Finite State Machines to process the data. This removes the burden from the on-board CPUs and allows for a larger number of parameters to be processed at a lower power consumption and without loading down the Host platform.

- No Operator intervention necessary, but monitor is available via TELENT session over Ethernet or with our FlightLine software which comes wit the DataTap-10 for free.

ABOUT ICS AERO:

Innovative Control Systems, LP. ICS Aero was established in 1990 in Phoenix Arizona with the goal to provide Engineering Consulting, Value Added Resale (VAR) and System Integration services to High Technology Aero-space Companies. Since that time, we have had many customers, both national and international. Today, we supply many different manufacturers with ASCB communications, Telemetry Interface, Simulation and other Data Acquisition equipment. Our customer base includes over 30 major aerospace companies and suppliers. Some names in our customer base include: Honeywell, Raytheon Aircraft Corporation, EMBRAER, Cessna, Gulfstream , Fairchild-Dornier, Bell-Agusta, NASA, Hamilton Sundstrand, B.F. Goodrich, Aircraft Braking Sys-tems, Vibrometer, Smiths Industries, GE Aviation and many others. Today, the vision has grown to include many Data Acquisition and Telemetry products. We are a world authority on, and specialize in, interface solu-tions to Honeywell's ASCB Aircraft communications bus. As a result, we develop many custom products for our customers who have needs in this area.

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