

Airborne Telemetry

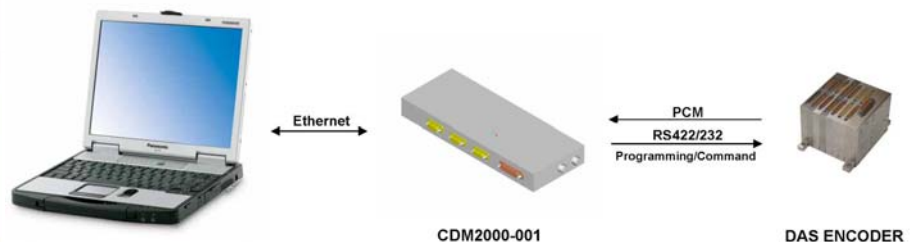
GSC2000-002 Ground Support Computer System *Airborne Data Acquisition Products*

DESCRIPTION

The GSC2000-002 is a portable, network-based data management system for controlling a Data Acquisition System (DAS), and also providing a variety of checkout, display and real time data monitoring capabilities. The GSC2000 consists of a Panasonic Toughbook laptop with daylight readable display loaded with the Vista TEC configuration and display software, and a standalone Compact Data Manager (CDM) that provides the programming and data gateway between the GSC and the DAS. The size and network capability of the CDM allows the unit to be located and powered in either commercial (115/230VAC) or airborne (28VDC) environments. Combined into a tightly coupled system, these state-of-the-art components provide flight test engineers with powerful and convenient access for setup and evaluation of flight test data acquisition systems.

The GSC2000-002 includes:

- Vista TEC Software for Programming and Data Processing, Display and Archiving
- CDM2000-001 – Compact Data Manager



- Panasonic Toughbook Computer 74 (or equivalent)

A. VISTA TEC SOFTWARE

Vista TEC software provides Telemetry Equipment Configuration software that allows users to setup and control their data acquisition systems. Vista TEC is a member of the L-3 Vista family of applications which provided a single integrated solution supporting airborne data acquisition and encoding as well as ground support units and ground station systems.

Please refer to the Vista TEC Product and Optional Plug-In datasheets for more information on Vista TEC.



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B. CDM2000-001

General Description

The CDM2000-001, compact data manager (CDM), is a miniature, network-enabled unit that has application in both commercial and flight environments for setup and control of airborne data acquisition systems.

Please refer to the CDM2000-001 Product datasheet for more information

The CDM provides control and data interfaces between the flight test engineer and the rest of a Data Acquisition System (DAS). These interfaces include RS-422 and RS-232 serial interfaces to control other DAS components, a fully programmable PCM input interface to receive data from the DAS, and a 10/100/1000 base-T Ethernet output interface to provide frame data products to the Host and other computers over a network link.

The small size of the CDM allows the unit to also be used as a standalone, general-purpose PCM to Ethernet converter for use with legacy PCM encoder systems.

C. PANASONIC TOUGHBOOK 74

The Panasonic Toughbook 74 has been selected to provide a robust workstation suited to the lab and flight line requirements for data acquisition system setup and pre-flight checkout.

- Microsoft Windows® XP Professional SP2
- Intel® Centrino™ Duo Mobile Technology
- Daylight-readable Display with Touchscreen
- Spill-resistant Keyboard and Touchpad
- Wide Area Wireless-Ready Design

Software

- Microsoft® Windows® XP Professional SP2
- Setup, DMI Viewer, Adobe® Reader, WinDVD 5
- On-Line Reference Manual, Utilities

CPU

- Intel® Core Duo Processor T2400:
- 2MB L2 cache
- Processor speed 1.63GHz (Dual Core)
- 667MHz FSB

Storage and Memory

- 1024 MB (min.) SDRAM [DDR2] standard, expandable to 4095MB
- 80GB HDD
- Combo Drive (DVD-ROM/CD-R/RW) Standard

Display

- 13.3" 1024 x 768 (XGA) transmissive, daylight-readable TFT Active Matrix Color LCD with Touchscreen
- External video support up to 2048 x 1536 at 16,777,216 colors
- Mobile Intel® 945GM Express Chipset, DVMT (Dynamic Video Memory Technology) up to 128MB
- 460 Nit LCD Brightness

Interface

- External Video Mini-D-sub 15 pin
- Headphones/Speaker Mini-jack Stereo
- Microphone/Line In Mini-jack Stereo
- Mini Port Replicator Dedicated 84 pin
- Serial D-sub 9 pin (UART 16550 compatible)
- USB 2.0 (x2) 4 pin
- 10/100/1000 Ethernet RJ-45
- 56K bps Modem RJ-11

Dimensions and Weight

- 1.7"-2.4"(H) x 12"(W) x 11.6"(D)\
- 5.95 lbs.

Wireless Lan

- Intel® PRO/Wireless 3945 Network Connection with respective drivers
- Slide on/off switch
- Security
 - Authentication: LEAP, WPA, 802.1x EAP-TLS, EAP-FAST, PEAP
 - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES

Power Supply

- Lithium ion battery pack (11.1V, 7.8Ah)
- Battery operation: approx. 8 hours**
- Battery charging time: approx. 4.5 hours**
- AC Adapter: AC 100V-240V 50/60Hz, Auto Sensing/Switching worldwide power supply
- Intelligent power measurement for precise battery status reporting
- Pop-up on-screen battery status reporting

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