APOGEE LABS

AL2873
CONFIGURABLE INTERFACE UNIT

FEATURES

Bit Error Rate Testing

Bit Sync

Fiber Optic Modem

-10, 13, 300 Mbps Data & Clock
-1 MHz, 10MHz Analog

-Multi-channel (up to 14)

Data Acquisition

Signal Distribution

-Single in / Multiple out
-With & Without Signal Conversion

Signal Conversion

-TTL, RS-232, RS-422

Level Conversion

-TTL, RS-422, Bi-polar
-Uni-polar, ECL, RS-232

Logic Change

-ECL, TTL

Time Distribution

-IRIG A,B,G, NASA 36 bit

Video Switching

Communication Protocol

-T1, AMI/TTL, TTL/T1-AMI

Opto-isolation

Clock Regeneration & Code Conversion

-Bi-Phase / NRZ-L
-NRZ-L / RNRZ-L

Ground Isolation

Single-ended / Differential

Impedance Matching

OVERVIEW

The AL2873 Configurable Interface Unit (CIU) is a modular equipment chassis that provides the platform for a wide variety of Interfacing Functions. Buffering, Signal Level and Connector conversions, protocol conversions, and even Data Link functions, such as Fiber Optic Modems, Bit Sync, Clock & Data Recovery as well as Bit Error Rate Testers are examples of the wide range of 'interfacing' the CIU addresses. It is modular in design which allows field upgrades simply by installing new or different function Modules.

Operation of the AL2873 CIU utilizes an easy to read color graphics LCD display and keypad. Plug-in modules may be placed anywhere within the chassis.

SPECIFICATIONS

Front Panel

-High Visibility LCD Display
-Keypad for Data Entry & Page Navigation
-16 LED Channel Status Indicators (slots 1-8, A&B)

Physical

-3.5" high x 19" wide Rack Mountable
-14 Card Slots
-Plug-in Modules 3" high x 5" deep

Electrical

-105-230 VAC, 47-63 Hz
-Typically <50W

Environment

-Operating Temperature –0° C to 50° C
-Altitude—Sea Level to 15,000 feet

Remote Control Option

-Ethernet 10 Base-T
-ASCII coded Command Response

Compatibility

-The 2873 will accept all AL2073 Interfacer modules that DO NOT require the 10 position Rotary Switch to function. This allows the addition of functions such as buffering, level conversion and fiber optic modem.

NOTE: Some modules may require power other than the +5Volts supplied in the basic AL2873 chassis. These can be accommodated by adding optional power modules (for example, 2073-881 supplies –5V for ECL type cards).

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