MODEL 2073-S
SINGLE SLOT CHASSIS

FEATURES

- 8.5" x 3.5" x 1.3"
- One single wide (0.90") card slot
- +5 V, 10 W AC/DC external power supply
- A & B status LED's
- 10 position rotary switch
- Front panel power indicator

OVERVIEW

The Apogee Labs Model 2073-S Single Slot Telemetry Signal Interface chassis is a cost effective unit which provides a convenient method of connecting equipment having dissimilar signal interfaces and/or distributing a single input to multiple outputs. In situations where the larger 14 channel 2073 chassis is not required, the single channel chassis provides a solution. All single-wide modules are fully supported by the 2073-S. A power converter module is used to convert the +5V input to all voltage levels required for operation of any 2073 module which are +5V, -5V, +12V and -12V. The A and B LEDs provide simple status of conditions occurring on the module plugged into the 2073-S. Front panel status of the input signal, the most common status being signal transitions, is available for most modules. A recessed 10-position rotary switch is available providing an easy means of selecting up to 10 unique functions which are available on several interface modules. An example of a rotary switch application is with the bit sync module (IOCBS1). The IOCBS1 can be configured with 8 unique configurations which are selected by means of the front panel switch. More than 50 unique interface/distribution modules exist for the 2073-S chassis covering a varied set of input and output standards. In addition to the standard set of modules, custom interface modules are developed as required by the industry.

MODULE TYPES

- Bit sync and clock recovery
- Telemetry code conversion
- PCM level conversion
- Impedance matching
- Signal and clock inversion
- Fiber optic transmission
- Logic change
- Time distribution
- Communication protocol
- Optical isolation
- Ground isolation
- Custom conversion

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SETUP AND INSTALLATION

Refer to individual module manuals for information regarding module-specific instructions.

Sampling of Available Conversion Descriptions and module part numbers
Bit Sync – IOCBS1 w/ 8 unique setups
Clock Recovery – IOCRM3, IOCRM4 w/ 8 unique setups
TTL Distribution (1-3) – IOC002
RS232 to TTL – IOC104, IOC105
TTL to RS232 – IOC003
TTL to RS422 – IOC001
TTL to ECL – IOC007
IRIG Distribution (1-3) – IOC400

Note: Modules currently in the field will require a Rear Panel Metal upgrade to be compatible with the 2073-S chassis. At time of order please specify

SPECIFICATIONS

PHYSICAL

Size: 8.5" x 3.5" x 1.3"
Weight: Less than 1 pound
Model 2073 Pluggable Interface Module

EXTERNAL POWER SUPPLY

100 VAC to 240 VAC (50/60 Hz); 0.3 A
+5 V, 2 A DC
2.5 mm center pin

ENVIRONMENTAL

Operating Temp: 0° to 50° C
Relative Humidity: 15% to 95% non-condensing
Altitude: Sea level to 10,000 feet

APPLICATION INFORMATION

The basic 2073-S chassis accommodates up 1 (Pluggable Interface Module). Each module typically supports two input signals, either as separate sources or as a "circuit" consisting of data and clock. A front panel rotary switch is provided to allow certain modules to be switched from one function to another, such as selecting an output code on a module that converts NRZ-L to one of several popular NRZ or Bi-Phase codes.

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