

MODEL 2173 INTERFACER PRODUCT LINE

MODEL 2173
CHASSIS

FRONT VIEW

FEATURES

- 19" x 3.5" x 16" high (2 U Rack Units High)
- Rack Mountable
- Houses up to 14 Pluggable Interface Modules 0.9" x 3" x 5" Each
- Front panel Access Module Adjustments
- Front Panel Power Indicator
- Pluggable Power Supply (Model 2173-880)

OVERVIEW

The Apogee Labs Model 2173 INTERFACER is a user configurable unit that provides a convenient method of conditioning signals between equipment having dissimilar signal needs. The Model 2173 is a simple card chassis designed to house an array of conditioning modules that allow the user to conveniently match signal sources to destination devices.

The 2173 Chassis is designed to house up to 14 single wide 2173 series interface modules. Front panel access to test points, toggle switches and trimmers, which are located on the 2173 interface modules, provide quick and convenient measurement and adjustment capability. Each module contained in the 2173 chassis is a self-contained function (generally analog) and therefore, operates independently from all other modules in the chassis. A 75 watt pluggable power supply is included with the chassis. The power supply and 2173 interface modules are easily installed or replaced while the chassis is installed in a rack. A front panel LED illuminates when AC power is applied. The AC power control switch is located on the rear of the chassis on the power supply module.

Apogee Labs supplies a wide range of interfaces to the communications, instrumentation and telemetry industries. New modules are developed as customer needs change. For a particular interface requirement, consult the factory. Apogee Labs custom builds interfaces to meet specific needs. A list of currently available modules can be found on our Web site at <http://www.apogeelabs.com>.

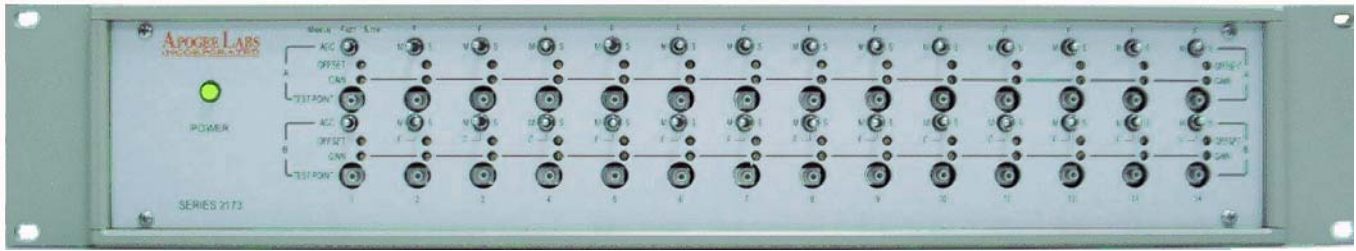


Figure 1 Model 2173 Chassis Front View

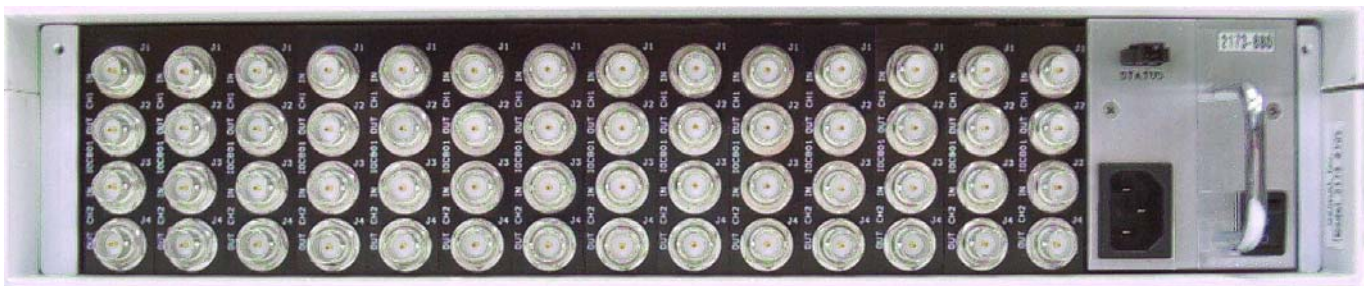


Figure 2 Model 2173 Chassis Rear View

SPECIFICATIONS

Physical:

Size: 19" W, 3.5" H, 9" D
Weight: Less Than 15 Pounds
14 Independent Card Slots

Power Supply:

109-240 Vac (47-63 Hz) Input
75 Watts maximum $\pm 12V$ supplied to Backplane

Environmental:

Operating Temperature:
0° to 50° C (32° to 122° F)
Relative Humidity:
15-95% Non-Condensing

Altitude:

Sea Level to 10,000 ft.

APPLICATION INFORMATION

The 2173 is used to house the 2173 series interface modules. Generally, these are analog signal handling devices. The design of the 2173 and its complement of functional modules stresses the

concepts of signal integrity, channel isolation and low noise contribution. So as to minimize the possibility of signal contamination, there is no interconnection provided between modules on the backplane of the chassis.

CONFIGURATION SETTINGS

The 2173 INTERFACER is a user configured unit that provides the flexibility needed to condition signals between equipment having dissimilar interfaces. The user selects the types and quantities of Pluggable Interface Modules (PIMs) required for an application. An electrical interface is provided in the chassis for up to 14 PIMs. A pluggable power supply module provides ± 12 Volts to the backplane. Each PIM produces needed voltages by regulating from this raw power.

There are no jumpers, switch settings or adjustments needed to enable the 2173 chassis for any mission or to accept any Pluggable Interface Module.

MODULE PLACEMENT CONSIDERATIONS

There are no constraints imposed on the placement of modules in the 14 chassis slots.

SETUP AND INSTALLATION

Refer to individual module User Manuals for information regarding module-specific instructions.