



## **MODEL 3750 SIGNAL DISTRIBUTION UNIT**

The Model 3750 Signal Distribution Unit serves as a buffer between a source of time or other digital or analog signals and a user, providing both signal amplification and isolation. The unit is available in either 1.75, 3.5, 5.25 or 7 inch high rack mount chassis. In the 3.5, 5.25 and 7 inch high versions all modules are front loading and available behind a hinged front panel door. In the 1.75 inch high chassis the modules are available beneath a hinged top cover.

The Model 3750 houses up to 4 buffer modules in its 1.75 inch high configuration; up to 15 buffer modules in its 3.5 and 5.25 inch high form and up to 30 buffer modules in its 7 inch high configuration. These modules can be drawn from an extensive library of available cards. A list of available cards is provided at the end of this product description. The list is expanded as new modules are developed.

# SPECIFICATIONS

## Capacity

Houses up to four (4), fifteen (15) or thirty (30) of the cards listed in column two depending upon the unit's chassis height. The standard rear panels include three input and either four, fifteen or thirty output BNC connectors. In this configuration the three input signals are bussed to each of the card connectors. Most of the card types accept three inputs and include plug jumpers to select which of the inputs will be buffered and output. This approach permits the user to easily configure a unit to meet his specific requirements.

Other card types contain two or more buffers. When these cards are used the rear panel is configured to fit the module capability.

For high frequency applications (1MHz and above), all internal wiring is coaxial. For low frequency applications, twisted pairs are used.

## Power Supply

The Model 3750 is equipped with an integral power supply which operates from an AC input of either 105-125 or 210-250 volts AC, 47-440Hz, 1 amp maximum. Unregulated power is bussed to each card where power regulation is performed. This eliminates power voltage variation in distribution and also evenly distributes heat dissipation.

## Physical Characteristics

The Model 3750 is housed in a rack mountable chassis with characteristics as follows:

Height:	1.75, 3.5, 5.25 or 7 inches (4.4, 8.9, 13.3 or 17.8 cm)
Width:	Chassis: 17 inches (43.2 cm)
	Front Panel: 19 inches (48.3 cm)
Depth:	3.5, 5.25 & 7 inch high units: 17 inches (43.2 cm)
	1.75 inch high units: 13 inches (38.0cm) or 19.5 inches 49.5 cm)

## Environmental Specifications

Temperature:	Operating: 0°C to +50°C
	Storage: -40°C to +100°C
Humidity:	0 to 95% relative, without condensation

## Finish

The chassis is black anodized. The front panel is black anodized or painted black with white lettering. Other colors are available.

## Documentation

One copy of an operation and maintenance manual is furnished with each unit.

## Available Modules

The following modules are available for use with the Model 3750 Signal Distribution Unit. Separate specification sheets are available for each card. The list is increased as customer needs require.

37504002	DC Driver
37504003	Medium Frequency Amplifier
37504004	Low Frequency AC Amplifier
37504005	1MHz AC Amplifier
37504006	5MHz AC Amplifier
37504011	Time Code Amplifier
37504012	10MHz Amplifier
37504014	TTL Amplifier
37504015	Time Code Amplifier with Dropout Detector
37504017	TTL Buffer
37504018	AC Amplifier
37504019	Modulator/Amplifier
37504020	High Frequency Amp
37504021	Dual DC Amp
37504022	AGC/Demodulator
37504024	50 ohm Driver
37504025	1MHz Amp with 50 ohm In/Out
37504026	Modulator/Amplifier
37504027	1MHz Amp with 50 ohm In/Out
37504028	Time Code Amp with 50 ohm In/600 ohm Out
37504029	AGC/Demodulator
37504031	Wideband DC Amp
37504032	Pulse Shaper
37504033	Relay Board
37504035	DC Amplifier
37504041	Four Channel Distribution Amplifier
37504044	Single Ended to RS422 Amplifier
37504045	RS422 to Single Ended Amplifier
37504051	Dual Time Code Amplifier
37504056	Medium Frequency Amplifier
37504057	Four Channel Distribution Amplifier with Inversion
37504058	RS422 In/(4) RS422 Out Amplifier
37504070	AGC Amplifier
37504073	Differential to Single Ended Converter
37504074	Camera Driver
37504100	ECL to TTL Converter
37504101	TTL to ECL Converter