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## CAMAC Equipment

CAMAC, Computer Automated Measurement And Control, is an IEEE-standard (583), modular, high-performance, realtime data acquisition and control system concept.

Since 1969, CAMAC has been used in many thousands of scientific, industrial, aerospace, and defense test systems around the world.

### APPLICATIONS

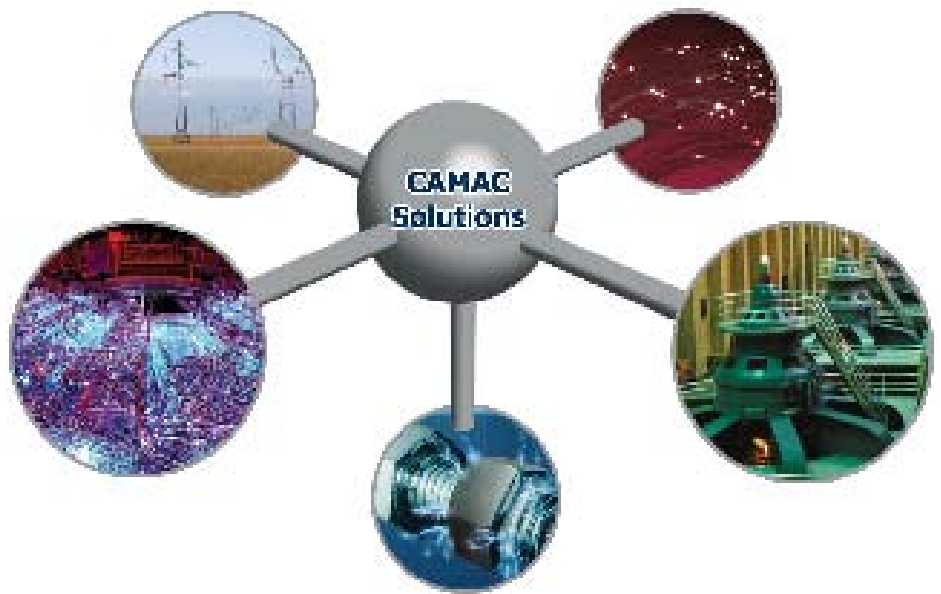
Transformer-isolated highway for serial crate controllers and serial drivers

Auxiliary loop control for Type L-2 serial crate controllers

Serial systems in a high common-mode noise environment

Serial systems with higher operating speeds over longer distances than can be obtained with D-Port connections

## 3936 Transformer-isolated U-Port Adapter



The Model 3936 U-Port Adapter is a single-width module providing auxiliary loop control when used with a Type L-2 serial crate controller (SCC) such as the Model 3952 or with a Serial Highway Driver such as the Model 3992 or 3994 operated in bit-serial mode.

### FEATURES

- Single-loop module
- Transformer isolation of Serial Highway for high-noise environments
- Biphase multiplexing provides transformer-compatible signals over a single pair
- Bypass and loop collapse are provided
- Meets IEEE-583 and IEEE-595 requirements
- Clock restorer allows many units in tandem at high speeds
- Active signal repeater in return path



**GENERAL DESCRIPTION**

The Model 3936 U-Port Adapter is a single-width module providing auxiliary loop control when used with a Type L-2 serial crate controller (SCC) such as the Model 3952 or with a Serial Highway Driver such as the Model 3992 or 3994 operated in bit-serial mode. The Model 1736 U-Port Adapter is used with the 2050- or 2160-Series Serial Highway Drivers. Only power connections are made to the Dataway.

A Serial Highway Driver and Type L-2 SCCs operated in bit-serial mode may be interconnected by a loop consisting of two pair, one for clock and one for data. While this connection is satisfactory for many applications, auxiliary loop control may be needed. The 3936 can be used to enhance serial system operation in the following ways:

1. It provides bypass and loop collapse under control of the associated TypeL-2 SCC.
2. It provides a multiplexed signal and transformer isolation. This reduces interference with the data signals in high-noise environments as well as allowing for increased operating speed and/or distance.

The Serial Highway input and output connections are isolated by transformers for high common-mode rejection. This is necessary when the transient ground potential difference between adjacent crates on the Serial Highway exceeds approximately ten volts or when very high electrostatic or magnetic fields couple into the Serial Highway. Clock and data are transmitted over a single pair in the form of the biphasic signal. This signal format was chosen because it contains no d-c component and can readily be coupled through transformers. The use of the 3936 provides an increase in reliable operating speed over a given cable or an increase in distance at a given operating speed.

**POWER REQUIREMENTS**

Model	+6 volts	-6 volts	+24 volts
3936	500 mA	30 mA	100 mA

**WEIGHT**

.70 kg (1 lb. 8 oz)

**ACCESSORIES**

Model 5800-Cxyz	Bit-serial Highway Cable
Model 5800-Dxyz	Bit-serial Highway Cable
Models 5930-Z1A, 5931-Z1A	Mating Connectors
Model 1736	U-Port Adapter

**ORDERING INFORMATION**

MODEL	DESCRIPTION
3936-Z1B	Single-loop Transformer-isolated U-Port Adapter

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