

Cool solutions to thermal problems.

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Research

COMMERCIAL | INDUSTRIAL | DEFENSE

## SSM1160

### Key Features

- Two Channel
- DeviceNet or RS-422 Outputs
- 10 bit to 16 bit Resolution
- Designed to Operate in Navy Shipboard Environments
- Field Programmable
- Programmable for Custom Firmware

## Rocky Research Synchro System Module



The Rocky Research Synchro System Module, **SSM1160**, is a two-channel synchro to digital conversion device. It allows a connection between legacy synchro systems and modern PLCs.

Rocky Research's **SSM1160** contains advanced, custom electronics. The device is programmable for custom firmware, as well as field programmable. The hardware is designed with optional DeviceNet over Control Area Network (CAN) or RS-422 data outputs, and can support other communication protocols. This allows the device to support the DeviceNet protocol for communication with programmable logic controllers and other DeviceNet capable devices. DeviceNet interface allows communication over virtually any protocol. The SSM is able to accept either 2 channels of 1x synchro data or 1-36x channel. Additionally, the module has the capability to operate in 10 bit to 16 bit resolution. Currently the SSM-SD60/D only supports polled I/O operation in the DeviceNet configuration.

The **SSM1160** design incorporates Rocky Research's expertise in ruggedization of high-density electronics; it is designed to operate effectively in the hostile environments found aboard Navy ships.

### System Specifications

Inputs:	(2) channels of 5-wire 90 volt 60 Hz or 400 Hz 1x
Outputs:	DeviceNet over CAN or RS-422 Profibus via Anybus Gateway
Power:	+12 to +24 V power and ground

### Physical Specifications

Dimensions:	11" (L) X 6.7" (W) X 3.5" (H)
Weight:	6.2 lbs

### Environmental Specifications

Shock:	MIL-STD-901D, Grade A, Class I, Type A, Certified
Vibration:	MIL-STD-167-1A, Type I Certified
EMI:	MIL-STD-461E, Surface Ships Certified
Humidity:	5% to 95% non-condensing Salt Fog
Enclosure Protection:	IP67 / EN 60529

\* Custom packaging options available \*