

Hypermod™ Telemetry Best Source Selector Encoder

The Hypermod Telemetry Best Source Selector Encoder significantly improves the ability to gather accurate and reliable, flight test telemetry data. The unit encodes encrypted telemetry data at the source and then outputs the signal stream either to a Nova Engineering Hypermod series transmitter or to a legacy transmitter.

Boost accuracy and reliability of encrypted telemetry data

- ▼ Encoding at the source aids ground-station data processing. Interfaces with legacy transmitters
- ▼ Reliable real-time data processing and control
- ▼ Reduces costly, time consuming post-flight data manipulation

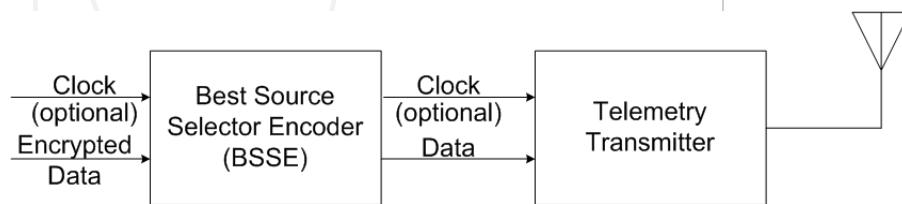


Nova Engineering's Hypermod Telemetry Best Source Selector Encoder (BSSE) works in conjunction with the Hypermod Telemetry Best Source Selector Decoder (BSSD) and industry standard Best Source Selectors to further improve the quality and reliability of telemetry data. The BSSE allows for variable length frames to be inserted into the encrypted data stream at the source. This helps to improve the efficiency and reliability of the ground-based switches providing the most robust link possible.

Applications

- ▼ Flight Test Telemetry Data Systems

The Best Source Selector Encoder BSSE is easily integrated with either legacy transmitters or with one of Nova Engineering's family of digital Hypermod airborne and missile transmitters. To save space the unit is sized to mount directly on existing or new Hypermod transmitters. The BSSE uses standard connectors and is easily configured and controlled with a PC/Windows GUI through a RS-232 serial interface.



The Hypermod Telemetry Best Source Selector Encoder provides a low cost and simple means to supply accurate, reliable data to test range ground stations. It gives test managers an effective means to reduce post-flight data processing and get real-time data.

Note: BSSE unit straps to transmitter, if desired.

Data and Clock

Clock operation	Synchronous; option for asynchronous
Functions	Enable/Disable frame insertion Store/Recall frame structures Set payload length between frame insertion Frame counter maximum count; enable/disable Source ID; enable/disable
Data rate	Automatically scales with input rate and frame insertion setting compatible with Hypermod MMT28 transmitters
Baseband Input Impedance	Single-ended TTL: 50 ohms Differential RS-422: 100 ohms
Data Source	External: synchronous or asynchronous Internal: selectable PN pattern and rate
Connector	MDM-15

Signal/Connector

Input levels	RS-422 compatible
Band rate	Fixed rate 19.2 Kbps
Connectors	Power: MDM-9 Control and Data: MDM-15

Power

Input voltage	MIL-STD-704 voltage range; (22-32 Vdc, typical)
Input current	TBD

Mechanical

Dimensions	2.5 x 3.5 x 0.4", exclusive of connectors 2.0 x 3.0 x 0.4 ", also available
Weight	8 oz. maximum

More information available.
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