

# Remote Service Module™

The Best Multi-Tasker in Your Company

## What is the Remote Service Module™?

This “brain in the field” device comes in three models, for bit protocols, byte protocols, or can convert bit to byte in either direction. It encrypts and compresses network communications with the Host Software, providing unparalleled network security while also improving communication throughput.



### How it Works

The Odyssey™ Product Series Remote Service Module™ (RSM) comes in a 1U rack mount unit or free standing. Once configured (via a laptop using Hyperterminal) and turned on, the RSM is virtually transparent to the network until it is remotely activated by the Host. After activation, the RSM utilizes proprietary Aegis Technologies security protocols within the Odyssey™ Product Series to authenticate to the Host. Post authentication, the RSM awaits commands to encrypt and/or compress data. Additional status changes and control commands are issued by the Host.

### Available in Three Models

- BIT** Conitel and other bit protocols
- BYTE** MODBUS, DNP3 and other byte protocols
- BIT/BYTE** First-ever exclusive enabler to translate between bit and byte in either direction, overcoming restrictions of current installations that result in bottlenecking

### Features/Benefits

- Overcomes limitations incurred by other vendors' devices within the Control network
- Easily retrofits into existing architectures without disrupting network operations
- Completely configured and controlled through the Odyssey™ Host System
- Encrypts network traffic with an ultra-low latency, 2048-bit key
- On-board authentication prevents rogue equipment from impersonating validated devices
- Fully Configurable and upgradable from Host
- Hardened Security Chip with Unique Device Identification
- Embedded Clock and Calendar Chip Synchronized to Host

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# Remote Service Module™

## The Best Multi-Tasker in Your Company

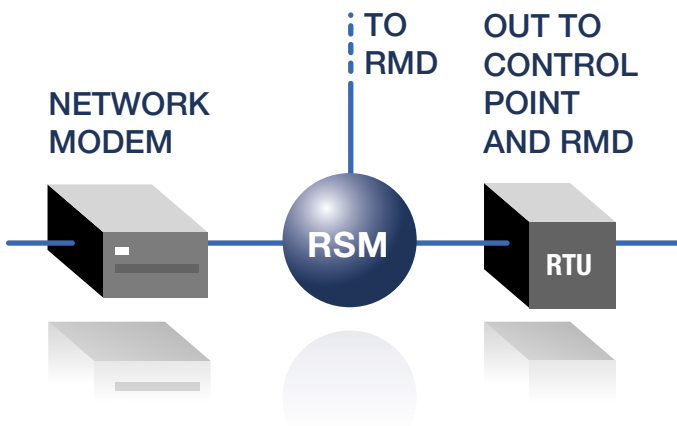
### Part of a Comprehensive Solution

The Remote Service Module™ is one of three installed components that comprise the Odyssey™ Product Series. The RSM executes encryption/decryption, compression/decompression with the Host System and provides a direct connection between the Host System and the Remote Modem Defender™.



The Remote Service Module™ is easily inserted into existing racks and provides visual information about status.

The Odyssey™ Product Series is “retrofitted” to your existing architecture. It integrates virtually transparent, providing valuable performance, troubleshooting, and security benefits without interrupting or adversely affecting existing network traffic.



### RSM Specifications:

#### Indicators

Power On:	Green LED
Link Status:	Green LEDs
Transmit/Receive Activity:	Yellow LEDs

#### Protocols

Supports all byte protocols (such as MODBUS, DNP3, IEC-61850) Full support for Conitel and other bit protocols, with bit-to-byte translation capability

#### Security Specifications

RC4 Encryption:	2048 bit encryption
Key Types:	Symmetric
Authentication:	Symmetric, with SHA-256
Pseudo-Random Number Generator:	ISAAC

#### Serial Ports

Number of Ports:	3
Connectors:	DB-9 male (DTE), DB-9 female (DCE)
Data Rate:	Up to 115,200 bps
Data Bits:	8
Flow Control:	RTS/CTS or None
Interface:	EIA-232, and Conitel compatible

#### Power Requirements

+12 VDC to +130 VDC Power supplied through 3-position Phoenix terminal or 120 VAC with external power adapter

#### Operating Temperature Range

-40° C to +85° C ( -40° F to +185° F)

#### Enclosure

1U powder coated steel enclosure, standard 19” rack mount, other sizes available

#### Certifications

Listings:	CE Mark ANSI/UL 60950 CAN/CSA C22.2 No. 60950	FCC:	FCC Part 15 Class A
	EN60950 EN55022 EN55024	IC:	ICES-003
		FIPS:	FIPS 140-2, Security Level 2 optional

ISO: Designed and manufactured using ISO 9001 certified quality program