

# OSIRIS™

OSI Remote Information System

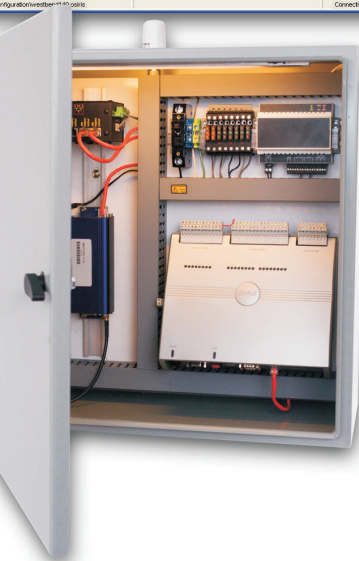
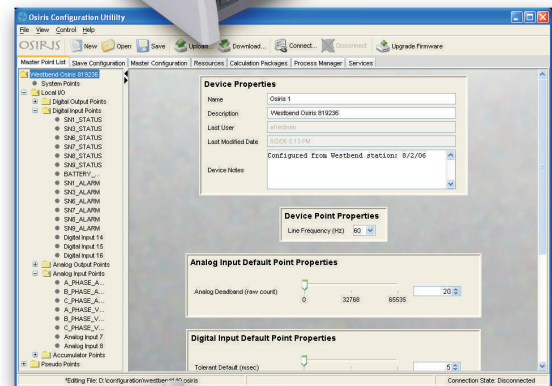
**OSIRIS™ (OSI Remote Information System)** is an innovative and versatile secure remote information and metering unit designed for the electric power, oil & gas, communications and water industries. It is considered a next generation Remote Terminal Unit (RTU) with unsurpassed functionality and features unavailable in the industry. **OSIRIS** is one of the industry's first Linux-based remote terminal units with built-in security features to deliver secure communications for critical utility operations over serial or IP-based connections.

**OSIRIS** features several standard peripheral interfaces to allow expansion for new connections and devices. These interfaces include; 10/100BaseTX Ethernet, RS232/RS485 serial, USB, CompactFlash, and CANbus (for I/O expansion). Using a small form factor, **OSIRIS** is an ideal electric power distribution/pole top Telemetry Unit.

**OSIRIS** uses the open source Linux operating system. This allows for unlimited versatility, offering support for Web-based configuration and statistics.

## Salient Features

- Linux Operating System
- Full TCP/IP Stack with Dual Standard Ethernet Interfaces
- Multiple concurrent sessions over one Ethernet port
  - Configure remotely and support multiple masters without utilizing additional ports
- Integrated Firewall
- Protocol Compliance:
  - DNP3 (slave/master) · Modbus (slave/master)
  - IEC 60870-5-104 (slave) · DNP over UDP
- IED Integration/Data Concentration
- IEC 61131-3 PLC Programming Support
- Resident Web-enabled Configuration Utility
  - Configuration files stored in XML format for easy viewing, e-mailing, etc.
  - Integrated configuration validation tool
- Dedicated maintenance port
- Terminal-based diagnostics
- Time Synchronization via NTP, IRIG-B or Protocol
- 1ms SOE data
- Compact Size: 10 x 8.69 x 1.63 inches (25.5 x 22 x 4.2 cm)
- Base Unit I/O expandable up to 7X using **OSIRIS XM** Expansion Modules



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OSIRIS™ Product Overview

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## OSIRIS™ General Specifications

### Main Processor System

- 400MHz Motorola PowerPC™ RISC Processor
- 32 Mbyte Flash Memory
- 64 Mbyte SDRAM
- Real-time Clock (2 ppm stability)

### Communications

- (2) 10/100BaseTX Ethernet ports with full TCP/IP stack
- (2) USB ports for memory and device expansion
- (2) RS232/RS485 serial ports (baud rates 300 bps to 56 kbps)
- (1) RS232 port for maintenance
- (1) CANbus interface for I/O expansion
- (1) CompactFlash for memory and device expansion (16 Gbyte capability)

### Power Requirements

- 20V - 60V DC
- Optional External Universal Power Supply

### Operating Conditions

- Operating Temperature -40° to 80°C (-40° to 176°F)
- Utility Grade: meets IEEE C37.90.1, IEC 61000-4-4

### Analog Inputs

- (8) optically isolated 16-bit DC analog inputs
- $\pm 1V$ ,  $\pm 5V$ ,  $\pm 10V$ ,  $\pm 1mA$ , 4-20mA inputs or as specified

### Digital Inputs

- (16) optically isolated digital inputs
- 12, 24, 48, or 125V bi-polar wetting voltage
- Optional internal wetting voltage
- 1ms time stamp resolution with configurable COS (Change of State) and SOE (Sequence of Events) recording

### Digital Outputs

- (8) clean contact Form C relay outputs
- Pulse on or hold
- Select Before Operate (SBO) functionality
- Maximum constant current: 6A
- Maximum momentary current (5 sec): 10A
- Maximum switched current: 10A @ 240VAC, 8A @ 30VDC
- Maximum switched voltage: 240V AC/DC

### Expansion Capability

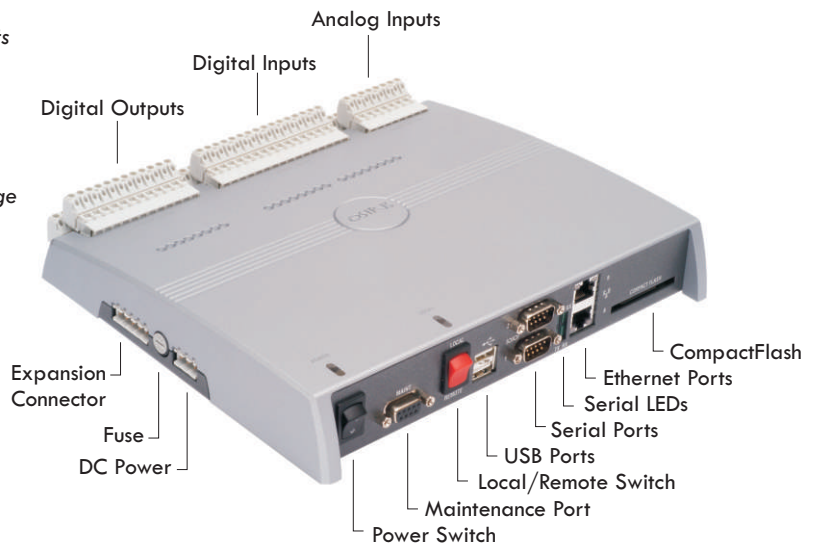
- OSIRIS XM Expansion Module offers 16 Digital Inputs, 8 Digital Outputs and 8 Analog Inputs
- Up to 7 Expansion Modules per OSIRIS

### Mounting

- DIN rail • Panel • 1U 19" Rack
- Custom enclosures available

### Options

- TASE.2 (ICCP)
- SEL Protocol
- IEC 61850
- Additional protocols as requested
- VPN support
- Port forwarding
- Real-time data viewer



Product specifications in this document are subject to change without notice.