

## Euroscan MX2

### Comprehensive cold chain management.

Two-way monitoring, management and control for the refrigerated transportation market.



ORBCOMM's Euroscan MX2 enables complete visibility, compliance and control capabilities for the refrigerated transport market.

As part of a comprehensive cold chain telematics solution that includes sensors, connectivity and the ColdChainView web application, the Euroscan MX2 enables comprehensive temperature monitoring, fuel management, preventative maintenance, remote control and more. The MX2 is designed to last as long as a trailer, ensuring that it never needs to be replaced.

By leveraging access to real-time and historical data, shippers and carriers are able to make informed decisions about their refrigerated business, improve operational efficiencies and ensure that products moving along the cold chain meet regulatory compliance and maintain integrity. Maximize your return on investment with reduced claims over cargo loss and damage.

#### Regulatory compliance

The Euroscan MX2 meets local and international regulations and guidelines, including HACCP, EN 12830: 2018 Class 0.5, CE, RED and PTCRB.

#### Versatile

ORBCOMM's Euroscan MX2 can be used with a wide range of transport assets—gensets, railcars, ocean containers, multi-temps, straight trucks, refrigerated trailers and more.

#### Feature-rich

Track the location of assets and receive real-time alerts when specific conditions are detected—geofence access, intrusion detection, temperature alarms and more. Use advanced reporting and analytics tools to optimize asset performance, fuel utilization and temperature profiles.

The ruggedized Euroscan MX2 features a direct interface to cold chain OEM microprocessors to facilitate installation and use. The system also has a remote on/off relay with lockout capabilities for integrated reefer control.

**Comprehensive temperature, fuel and maintenance management**

**Direct interface to cold chain OEM microprocessors**

**Two-way monitoring and control**

**Event-based alarms**

**Quality assurance and regulatory compliance**



### Compatible refrigeration systems

- Carrier
- Thermo King
- Mitsubishi
- Konvekta

### Mechanical

- Dimensions: 137 mm x 94 mm x 63 mm (5.4" x 3.7" x 2.5")
- Weight: 0.9 kg (1.98 lb) including wiring harness

### Environmental

- Operating temperature: -30 °C / +70 °C
- Maximum temperature: -40 °C / +85 °C
- Rated IP65, IP67

### Power requirements

- Supply Voltage: 10 to 32 volts
- Consumption: 0.4W nominal, 8W maximum during cellular communication

### Communications

- GSM (2FF Mini SIM card format, exchangeable)
  - » 2G in 850, 900, 1800, 1900 MHz
  - » 3G in 8UMTS 1900 and 2100 MHz
- Wireless connectivity: Bluetooth 4.1, Class 2

### Software

- Local or remote over-the-air (OTA) parameter change, firmware upgrade, alarm configurations

### Memory size

- 8 MB, minimum 1 year with 2 sensors on a 15-minute logging interval

### Certifications and compliance

- 2004/104/EC R10 automotive e-marking
- EN 12830: 2018 Class 0.5 (-40C to +7C), Class 1 (-40C to +50C)
- PTCRB
- RED
- CE
- GAMP 5
- RoHS

### Shock and vibration

- EN 60068-2-27

### Immunity

- ISO 11452-2 and ISO 7637-2:2004

### Interfaces

- 1 on-board temperature sensor
- 2 inputs for temperature/humidity sensors
- 1 analog or digital input
- 1 digital output
- 1 switched to ground 1A
- 1 digital output 5A relay
- 2 RS232 serial ports
- 1 CAN bus
- Bluetooth 4.1, Class 2
- iButton ready
- 1 3-axis accelerometer for shock detection

### Deployment options

- Temperature and door sensors (standard 2, maximum 10 with AG 400)
- Fuel sensor
- Connectivity to external truck telematics device
- Connectivity to temperature recorder

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ORBCOMM (Nasdaq: ORBC) is a global leader and innovator in the industrial Internet of Things, providing solutions that connect businesses to their assets to deliver increased visibility and operational efficiency. The company offers a broad set of asset monitoring and control solutions, including seamless satellite and cellular connectivity, unique hardware and powerful applications, all backed by end-to-end customer support, from installation to deployment to customer care. ORBCOMM has a diverse customer base including premier OEMs, solutions customers and channel partners spanning transportation, supply chain, warehousing and inventory, heavy equipment, maritime, natural resources, and government. For more information, visit [www.orbcomm.com](http://www.orbcomm.com).