Fleet Management Systems

OmniCom Global combines Iridium global satellite coverage and GSM 3G cellular coverage, with an automated least cost routing capability for reliable and cost effective ship-to-shore communications. Together with McMurdo’s integrated fleet management software, PRISMA Connect, this system enables a complete end to end solution. Offering visibility and control of commercial fleet operations in real time, including a robust suite supporting vessel tracking, two-way messaging, document management and AIS display. Backed by McMurdo’s 24/7 technical and SOS alert support, OmniCom is the next generation of trusted McMurdo brand fleet management technology, designed to provide complete support to your business, your vessel and your crew.

OmniCom Global is designed to minimise operational costs for fleet managers, allowing online software updates to reduce vessel downtime, flexible least coast routing options, digitized forms and message confirmation log helps to reduce errors and communications time. For coastal and inland waterways, OmniCom utilizes 3G capability, designed for IOT and commercial requirements, offering connectivity at more competitive rates, as users pay by data usage rather than cost per character.

OmniCom Global’s Key Benefits

<table>
<thead>
<tr>
<th>End-to-End Vessel Monitoring</th>
<th>OmniCom provides fleets with end-to-end visibility from ship-to-shore. Configurable messaging includes position, course, and speed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational Efficiency</td>
<td>Continuous connectivity enables real-time vessel monitoring, communication and reporting for dispatch and operations to optimize fleet productivity. Over-the-air updates anywhere in the world without taking vessels out of service.</td>
</tr>
<tr>
<td>Lower Costs</td>
<td>Least Cost Routing helps better manage expenses by automatically switching from satellite to cellular coverage when available. System seamlessly changes to satellite when out of cell range so connectivity is never lost. Power consumption is low with 10-36V DC connectivity.</td>
</tr>
<tr>
<td>Integrated Safety &amp; Security Features</td>
<td>SOS button is easily accessible to alert authorities in emergency situations supported by McMurdo’s 24/7 helpline, helping ensure crew safety.</td>
</tr>
<tr>
<td>Improved Crew Productivity</td>
<td>Crew productivity improves by transmitting dispatch, change orders, daily logs, reports and other critical information directly to and from the vessel. More time can be spent working the job and less time spent managing paperwork.</td>
</tr>
</tbody>
</table>
Global Satellite Communications for Real Time Connectivity

Designed for commercial boats, McMurdo OmniCom tracks and monitors vessels using the Iridium satellite and 3G networks. The dome positioned on the exterior of the vessel houses the Iridium transceiver, the GNSS receiver, the cellular modem and electronic interfaces. The junction box located in the wheelhouse serves as an interface between the dome and the power supply and offer I/O ports for connecting ancillary devices.

**Dimensions & Weight**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beacon Size</strong></td>
<td>198 x 192 x 120 mm (L x W x H)</td>
</tr>
<tr>
<td><strong>Beacon Weight</strong></td>
<td>2.15 kg (including 7.0 Ah battery)</td>
</tr>
<tr>
<td><strong>Junction Box Size</strong></td>
<td>169 x 126 x 48 mm</td>
</tr>
<tr>
<td><strong>Junction Box Weight</strong></td>
<td>0.35 kg</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Satellite Transceiver</strong></td>
<td>Iridium Type Approved. Transmitter frequency 1616 to 1626.5 MHz, HF Power: 32 dBm max</td>
</tr>
<tr>
<td><strong>Cellular Modem</strong></td>
<td>GSM/GPRS/Edge (850/900/1800/1900 MHz) UMTS/HSPA (850/900/1700/1900/2100 MHz)</td>
</tr>
<tr>
<td><strong>GNSS Receiver</strong></td>
<td>Receiver for GPS &amp; GLONASS satellites. Precision of &lt; 10 m</td>
</tr>
<tr>
<td><strong>IEC 60945</strong></td>
<td>IEC 60945 Approved to guarantee resistance to high temperatures, humidity, salinity, and vibration, and long-term functionality of terminal components</td>
</tr>
<tr>
<td><strong>Bluetooth</strong></td>
<td>Bluetooth interface for wireless connectivity</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>Operating Temperature Range: -25°C to +55°C</td>
</tr>
<tr>
<td></td>
<td>Storage Temperature Range: -25°C to +70°C</td>
</tr>
<tr>
<td><strong>Ingress Protection</strong></td>
<td>Water &amp; weather resistant. Beacon IP-67, Junction Box IP-65</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>Power supply range nominal 10V-36V · Current drain: &lt;2A at 12V, &lt;1A at 24V</td>
</tr>
<tr>
<td><strong>Back-Up Battery Life</strong></td>
<td>Extended life up to 72 hours via rechargeable 7.0 Ah battery</td>
</tr>
<tr>
<td><strong>Memory Back Up</strong></td>
<td>Standard memory back up of 90 days</td>
</tr>
<tr>
<td><strong>Conformity</strong></td>
<td>EC declaration of conformity</td>
</tr>
</tbody>
</table>
Fleet Management Software for Improved Operational Performance

PRISMA Connect is the trusted solution for integrated fleet management. Our world-class, web-based software solution provides access to fleet-wide data through cellular and satellite communications. PRISMA Connect improves operational efficiencies by connecting shore-side operations with your fleet at sea and increases crew productivity via two-way messaging and electronic forms.

**Connect On Shore**
- AIS for complete maritime domain awareness
- Electronic nautical charts for improved maritime navigation
- Geofencing for compliance with protected or restricted zones
- Vessel tracking & route planning
- Records weeks worth of historical communication data and reporting
- API for 3rd party apps
- Mobile device optimized access

**Connect On Ship**
- Vessel-based application facilitates quick and easy communication with shore operations
- Messaging options include email, message direct to and from shore and e-documents such as logs and reports
- Message delivery confirmation
- Least cost routing (cellular/mobile, satellite) keeps costs under control

**Connect With Forms**
- Standard, pre-filled forms
- Custom conversion of paper logs
- Ability to send forms immediately from ship for faster billing
- More accurate invoicing and fewer data entry errors
- Improved crew productivity with faster form processing
- Reduced paperwork
- Over-the-air updates
- Mobile tablet app with e-signature capture

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**PRISMA Connect**

![Diagram showing connectivity between shore and ship with features like charts, geofences, routes, tracking, reports, forms, and positions.]
McMurdo: One Solution — One Call

Effective fleet management utilizes both vessel side and shore side components to ensure a reliable two-way flow of critical information. McMurdo's OmniCom Integrated Solution includes vessel hardware, fleet management software, airtime and 24 hour LIVE support in one complete package. Enjoy the benefits of working with one vendor for your vessel communications needs in an end-to-end solution designed specifically for the maritime industry!

Vessel Side
OmniCom
Global connectivity through the Iridium network.
• Low-cost cellular least cost routing
• Rugged for reliable connectivity
• End-to-end vessel monitoring

PRISMA Forms
Custom smart forms standardize vessel data and reduce errors.
• Easy for captains to use and adopt
• Convert your own paper forms
• Email, logs and reports at sea

Network
Operations Center
Information Management
Interactive customer services and Communications Gateway.
• 24/7/365 LIVE client care support
• Secure hosted web-based applications
• Data subscription services
• Message relaying
• Emergency response
• Free news and sports

Shore Side
PRISMA Connect
Web-based messaging and mapping fleet management platform.
• Multiple user access to data from any computer
• Compatible with mobile phones and tablets
• AIS, charts, oil & gas and mile marker map layers
• Flexible user security
• Customizable display

Manufacturing Quality

The OmniCom Global Fleet Management Solution is a McMurdo branded product from Orolia Maritime, a globally renowned marine multi-frequency distress beacon manufacturer. Orolia Maritime is known for expertise in resilient positioning navigation and timing solutions.