

## Cisco ONS 15310-MA Wall Mount Enclosure

The Cisco® ONS 15310-MA Multiservice Provisioning Platform (MSPP) is a carrier-class MSPP that efficiently switches Ethernet and time-division multiplexing (TDM) traffic for use in metropolitan and regional optical networks. Fiber-to-the-building (FTTB) applications represent an increasingly important opportunity for metropolitan service providers to extend their networks, reach new customers, and profitably grow their businesses. The Cisco ONS 15310-MA has enabled service providers to address the FTTB market because it delivers supercharged SONET/SDH, integrated optical networking, unprecedented services on demand, and radical economic benefits. However, FTTB applications required providers to deploy equipment to sites that may be unsecured, lacking standard equipment racks, without DC power sources, or controlled by outside parties.

### Cisco ONS 15310-MA Wall Mount Enclosure Solutions

The Cisco ONS 15310-MA can be integrated in numerous enclosures, that is, wall mount (indoors or outside plant, pad mount, or pole mount), and equipped with customer-approved third-party support components. These configurations are built and customized by a Cisco approved partner, PCI (PlastiComm Industries, Inc.). Ordering information is given later in the document (Figure 1).

**Figure 1.** Cisco ONS 15310-MA Wall Mount Enclosure with Optional Battery Backup



The Cisco ONS 15310-MA Wall Mount Enclosure (WME), a secure, wall-mountable cabinet, addresses those important FTTB requirements cost-effectively so that service providers can take full advantage of this opportunity at a fraction of the cost, in a fraction of the time (Figure 2). The Cisco ONS 15310-MA WME offers a rectifier with redundant modules, 8 hours of battery backup capability, and a Cisco ONS 15310-MA Metro Edge Optical Transport Platform as a single, convenient solution.

The WME is designed to operate in a covered facility that may be exposed to outside air and contaminants. It is also designed with a separate battery cabinet enclosure for the battery backup. The Cisco ONS 15310-MA WME provides multiple alarm inputs, which can be used to collect information at a remote location and transmit it back to a management center. The enclosure comes with all components premounted and prewired (Cisco ONS 15310-MA cables are orderable) so that it can be installed, provisioned, and put into service in less than 4 hours.

**Figure 2.** Cisco ONS 15310-MA WME Detail



The Cisco ONS 15310-MA WME is offered in the configurations outlined in Table 1. Table 2 gives product specifications.

**Table 1.** Cisco ONS 15310-MA WME Configurations

| WME Configuration Part Numbers | Description   |
|--------------------------------|---|
| PCI-15310WME-1                 | Standard equipped Cisco ONS 15310-MA WME, including wall-mount cabinet integrated with a Valere power plant – two-rack-units (2RUs; 1RU = 1.75 in.); front access, with redundant rectifiers; AC load center; alarm terminal block; ADC fiber management tray – 1RU (FMT), without glass window; and dual-hinge bracket |
| PCI-15310WME-1-CHAS            | Cisco ONS 15310-MA shelf assembly, including fan tray assembly  |
| PCI-15310WME-1-FTF             | Replacement filter for door assembly  |
| PCI-15310WME-1-LVD             | Low-voltage disconnect for Valere power plant   |
| PCI-15310WME-2                 | Custom equipped Cisco ONS 15310-MA WME, including wall-mount cabinet integrated with AC load center and alarm terminal block; and customer-specified power plant and fiber management tray  |
| PCI-15310WME-2-CHAS            | Cisco ONS 15310-MA shelf assembly, including fan tray assembly  |
| PCI-15310WME-2-FTF             | Replacement filter for door assembly  |

| WME Options Part Numbers | Description  |
|--------------------------|--|
| List 1                   | WME with glass window  |
| List 2                   | Customer-specified power plant (maximum 3RU)                   |
| List 3                   | Customer-specified FMT (maximum 1RU)                           |
| List 4                   | Spare cabinet fan assembly                                     |
| PCI-15310WME-WARR        | Extended 5-year warranty                                       |
| PCI-15310WME-2-CHAS      | Cisco ONS 15310-MA shelf assembly, including fan tray assembly |
| PCI-15310WME-2-FTF       | Replacement filter for door assembly                           |

| WME Options Part Numbers  | Description  |
|---|--|
| HE32-MX-0xx, xx = ft (10-ft minimum)                            | Two DS-1 cables 32 pair, AMP ends A-side   |
| HE32-AX-0xx, xx = ft (10-ft minimum)                            | Two DS-1 cables 32 pair, AMP ends B-side   |
| PCI-15310WME-BATT-L1  | Battery backup enclosure for Cisco ONS 15310-MA WME, including battery tray with pad and spacers, NorthStar NSB+90FT (4) batteries, battery hold-down bar, and battery cable harness         |
| PCI-15310WME-BATT-L2  | Battery backup enclosure for Cisco ONS 15310-MA WME, including battery tray with pad and spacers, battery hold-down bar, and battery cable harness (customer specifies battery manufacturer) |
| <b>Battery Manufacturers (suggested because size fits tray)</b> |  |
| NorthStar NSB+60FT  | (provides 6 hours reserve)   |
| NorthStar NSB+90FT  | (provides 8 hours reserve)   |
| PowerSafe 12V92F  | (provides 8 hours reserve)   |
| Fiamm 12UMTX100/19 FT   | (provides 8 hours reserve)   |

**Table 2.** Cisco ONS 15310-MA WME Specifications

| WME Description                | Specification  |
|--------------------------------|--|
| Dimensions (H x W x D)         | 30 x 24 x 21 in. (76.20 x 60.96 x 53.34 cm)  |
| Weight                         | 190 lb (86.18 kg) (approximate, fully configured)  |
| Cabinet                        | <ul style="list-style-type: none"> <li>Removable lift handles</li> <li>Open-door alarms</li> <li>Temperature sensor on battery cabinet</li> <li>Flexible cable entry or exit</li> <li>Recessed Hubbell Twist-Lock connector for AC input with 10-ft cord</li> </ul>  |
| Cabinet door                   | <ul style="list-style-type: none"> <li>Quad panel latch (compression) and other temper-resistant features</li> <li>(Optional) Glass window</li> <li>Air filter</li> </ul>  |
| Alarms                         | Alarm terminal block monitors: <ul style="list-style-type: none"> <li>Power supply failure</li> <li>Cabinet door (WME or battery) open</li> <li>Ambient temperature of the cabinet has reached 131°F (55°C)</li> <li>No AC is present</li> <li>Rectifier module failure</li> <li>Fuse failure</li> <li>Circuit breaker trip</li> <li>System low voltage</li> <li>Fan failure(s)</li> </ul> |
| <b>Redundant Rectifier</b>     |  |
| Input voltage                  | 110 VAC; 20A   |
| Output voltage                 | -48 VDC  |
| Fusing                         | 10A breaker  |
| <b>Battery Cabinet</b>         |  |
| Capacity                       | 6–8 hr   |
| Dimensions (H x W x D)         | 20 x 24 x 20 in. (50.80 x 60.96 x 50.80 cm)  |
| Weight                         | 70 lb (31.75 kg) (approximate, without batteries)  |
| Fusing                         | 10A breaker  |
| Recommended batteries          | <ul style="list-style-type: none"> <li>NorthStar NSB+60FT (provides 6 hours reserve)</li> <li>NorthStar NSB+90FT (provides 8 hours reserve)</li> <li>PowerSafe 12V92F (provides 8 hours reserve)</li> <li>Fiamm 12UMTX100/19 FT (provides 8 hours reserve)</li> </ul>  |
| Maximum dimensions (H x W x D) | <ul style="list-style-type: none"> <li>14 x 4.25 x 16 in. (35.56 x 10.80 x 40.64 cm)</li> </ul>  |
| Voltage                        | 12V  |
| Capacity                       | 90A hours minimum (8 hours)  |

## Service and Support

### In-Warranty

For service and support of standard configured (PCI-15310WME-1) in-warranty products, please call, fax, or send e-mail to PCI at:

Toll free: 888 PCI (724)-9001

Fax: 303 433-7133

E-mail: [products@pciadvantage.com](mailto:products@pciadvantage.com)

### Out-of-Warranty

For service and support of standard configured (PCI-15310WME-1) out-of-warranty products, please contact:

For cabinets, fans, filters, hinge bracket, and cables:

PCI

1500 West 47th Avenue

Denver, CO 80211

Toll free: 888 PCI (724)-9001

Fax: 303 433-7133

E-mail: [products@pciadvantage.com](mailto:products@pciadvantage.com)

For Cisco ONS 15310-MA:

Use your Cisco Technical Support Tool.

Valere Power Plant:

Valere Power

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Richardson, TX 75081

Phone: 469 330-9100

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