

ENCELIUM® EXTEND Wireless Manager



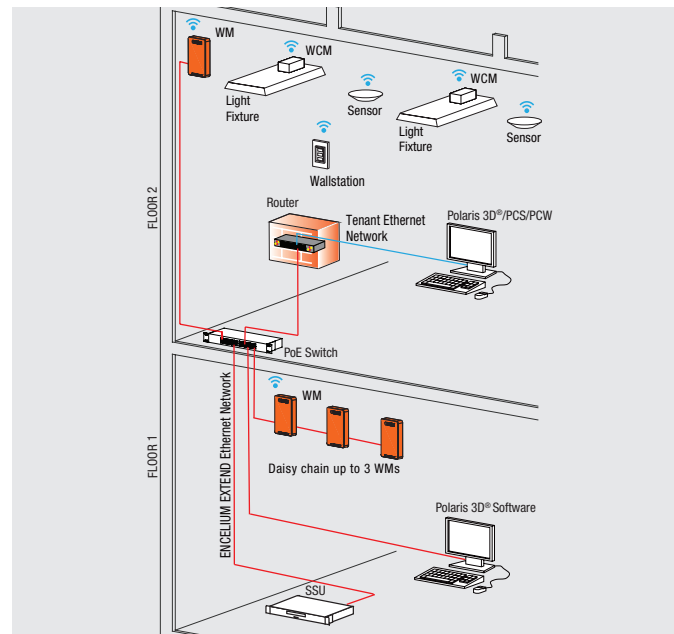
The ENCELIUM® EXTEND Wireless Manager (WM) collects, processes and distributes lighting control information to control modules, wallstations and sensors over a wireless mesh network. Each WM typically can control up to 100 nodes.

The WM is the central intelligence point in the system for the wireless devices. It collects signal information from photo sensors (light levels), occupancy sensors (occupancy status) and wallstations (wall-mounted lighting controllers). It then determines appropriate brightness levels or ON/OFF status for each fixture and zone. Photo sensors/occupancy sensors do not directly control light levels but rather are connected to the wireless network and provide information to the WM. The WM then determines what action to take based on the status signals from the sensors.

Key Features & Benefits

- Controls up to 100 nodes wirelessly
- Flexibility of design
 - Scaling system down for smaller applications
 - Can be combined with the ENCELIUM® EXTEND Manager for a combined wireless and wired solution
- Sleek design for seamless installation
- Ease of installation
 - Ceiling mounted or wall mounted
 - Powered via Power over Ethernet (PoE)
- Dual PoE ports allow daisy chaining WMs

ENCELIUM® EXTEND Networked Light Management System Architecture



System Architecture

This illustration shows how each component is easily integrated into the ENCELIUM EXTEND Networked Light Management System. The ENCELIUM EXTEND Wireless Manager communicates via a mesh network based on ZigBee standards. The Wireless Manager (WM) is powered using Power Over Ethernet (PoE). Each WM must be connected to an Ethernet (PoE) Network Switch using standard Cat-5 or greater Ethernet data cabling. Each WCM, sensor, and wallstation uses a wireless mesh network to relay data back to the WM. WMs typically control individual floors and are linked via an Ethernet Network back to the SSU. Internet or LAN connection allow floor plan based control software to be operated anywhere on the network. For reference, the component shown on this data sheet is highlighted.



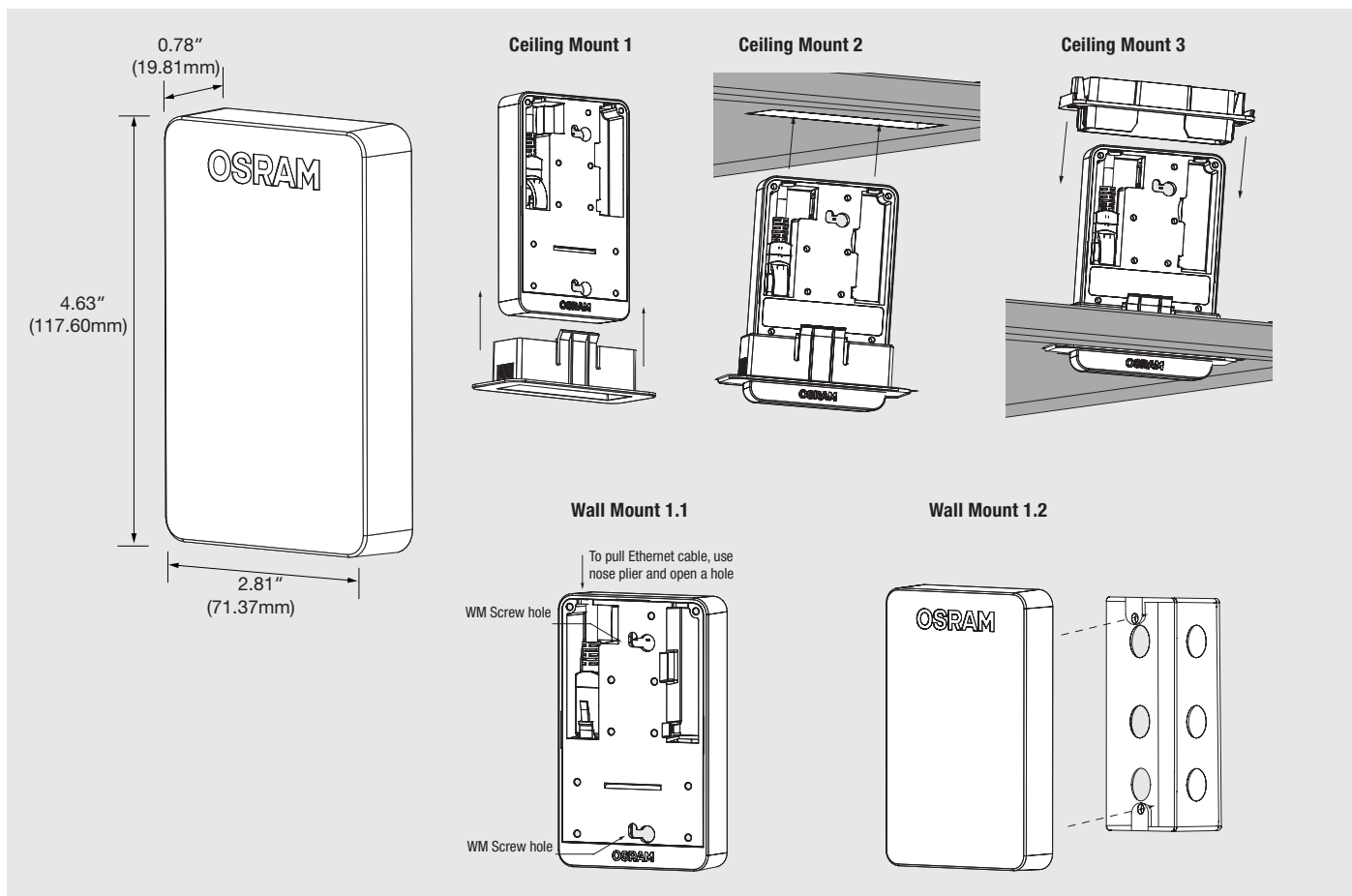
Ordering Information

Item #	Ordering Description	Communication Network
45569	EN-WM-ZB-P3D	ZigBee Wireless

Specifications

- Wireless Range: 100' line of sight, 50' through standard walls
- Wireless Manager Network Port – Ethernet 1-/100BaseTx Cat. 5 RJ45 port
- Dual PoE ports for daisy chain of up to 3 Wireless Managers
- Status LED on front of unit
- Configuration stored in non-volatile flash memory
- Weights: 115g (4.06 oz) wireless manager
40g (1.41 oz) ceiling mounting kit
- Operating Temperature Range: 32°F to 104°F (0°C to 40°C)
- Ceiling or wall mount options
- AES 128-bit encryption for wireless communication
- Dimensions: 2.81" W x 4.631" H x 0.78" D (71.37mm W x 117.6mm H x 19.81mm D)
- Includes Polaris 3D® Software
- cULus Listed
 - Energy Management Equipment (UL 916)
- Complies with the following electromagnetic requirements:
 - EN 61000-4-2
 - EN 61000-4-4
 - EN 61000-4-5
- FCC Part 15/ICES-003

Dimensions and Installation Diagrams



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