



Description

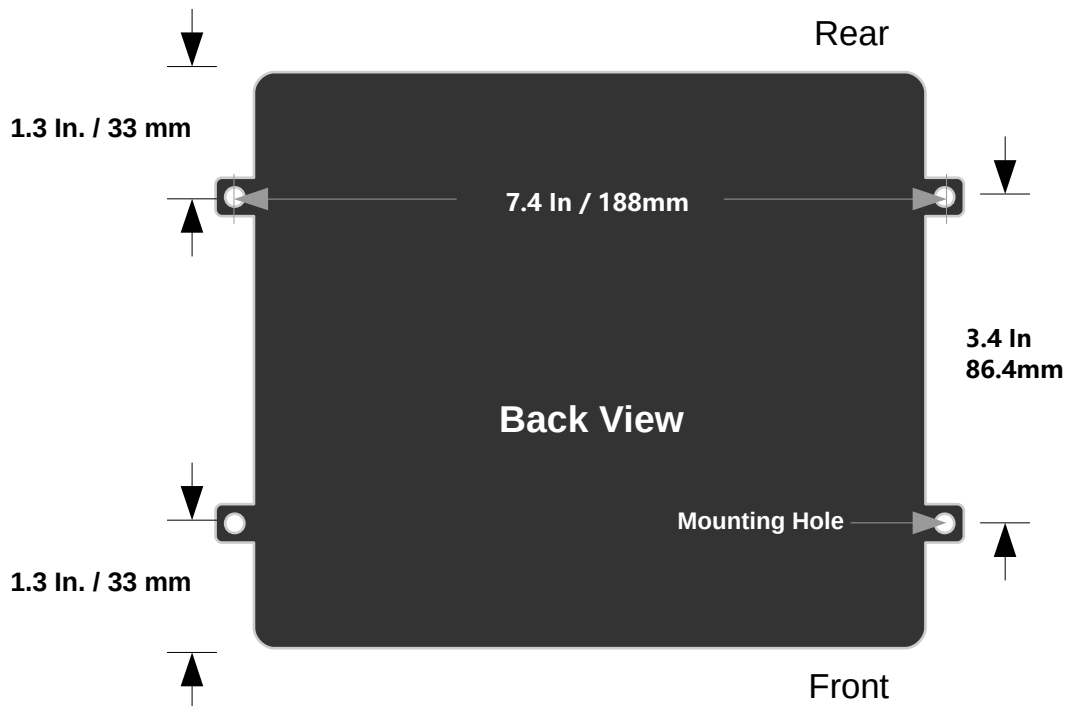
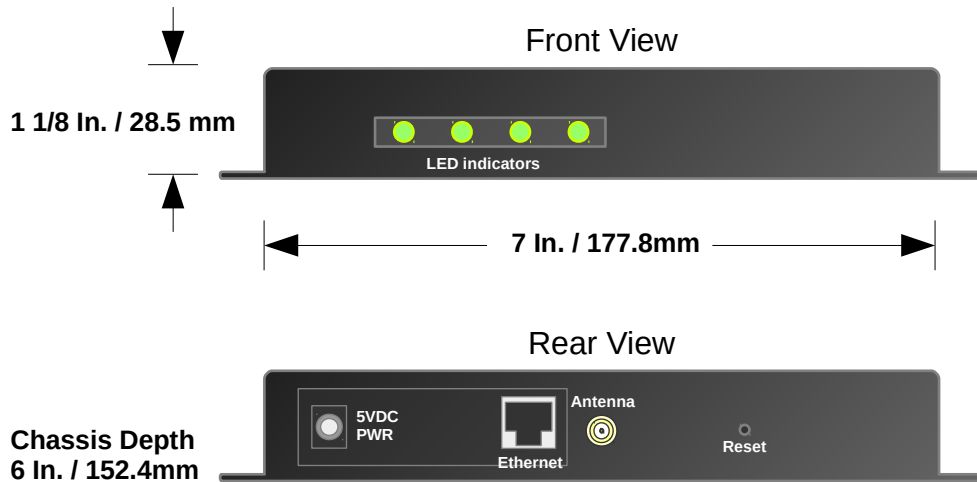
The EC1 PAN Coordinator configures and connects wireless devices that can be managed by open-protocol automation systems and business applications which support MODBUS TCP. The EC1 operates on 802.15.4 wireless standard with an Ethernet port to be accessed from the Internet or local area network. Each wireless enabled Intelliway device is given a specific device type name and a specific set of MODBUS registers which can be accessed via MODBUS TCP protocol. Each assigned MODBUS register set contains device link status, sensor battery conditions (for battery operated devices) and other relevant data. The self-forming Intelliway mesh network is easy to start-up, and its self-healing feature provides outstanding communication robustness. The EC1 provides a Web-based remote configuration and maintenance UI and the unique benefit of over-the-air Software/Firmware upgradability.

PAN Coordinator:

The PAN Coordinator is the Wireless Network Manager and Gateway. It is used to discover all devices on the Intelliway wireless mesh network. The devices can then be controlled either through the EC1 web UI or by using Modbus TCP configured through the EC1.

RF Specifications	
RF Classification	802.15.4 ISM Band Device (Instrument /Scientific / Medical)
Frequency	2.4 GHz 15 Channels
Network Architecture	Star Mesh PAN Coordinator
Transmit Power	18 dBm Typical
Receive Sensitivity	-99 dBm
Device Classification	PAN Coordinator
Access	
Remote Management	Password Protected Web UI
Software Upgrade	HTTP
Open Protocol	ModBus TCP
Hardware Specifications	
Power Requirements	5VDC 2A
WAN connection	RJ-45 MDI
WAN connectivity	DHCP, Fixed IP
LEDs	4 LED Indicators
Mechanical Specifications	
Dimensions	Height (H): 1.125 in. (28.5 mm) Width (W): 7 in. (177.8 mm) Depth (D): 6 in. (152.4 mm)
Weight	560g
Environmental Specifications	
Enclosure	Metal
Operating Temperature	50°F to 113°F / 10°C to 45°C
Storage Temperature	-4°F to 158°F / -20°C to 70°C
Operating RH	5-80% Non-Condensing
Storage RH	5-90% Non-Condensing

Dimensions:

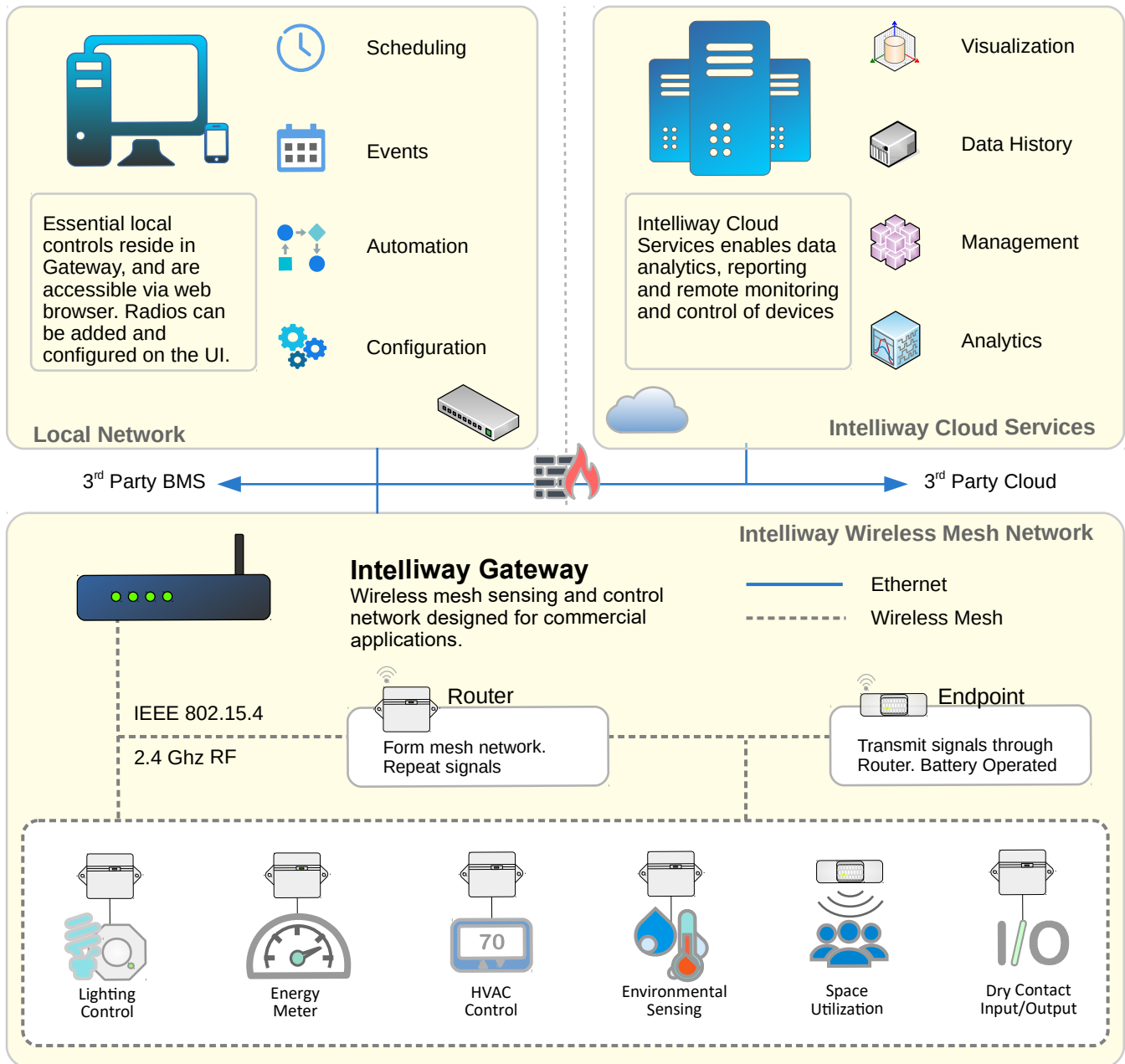


Installation location:

- Do not install the EC1 in a metal enclosure (use plastic or fiberglass if required)
- Do not install the EC1 within 10 Feet of an 802.11 Wi-Fi Access Point
- Do not install the EC1 within 25 Feet of a cell repeater
- For best performance the antenna of the EC1 should be vertical, either up or down.

Intelliway

Wireless Mesh Sensor & Control Network



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