

# Intelagrid<sup>®</sup> Technology Solutions

## ecoNet<sup>™</sup> Communication Gateway



### KEY FEATURES

- Standards based communication
- Dynamic provisioning & self healing MESH network
- Provides full security including AES , DES support
- High speed data (50 Mbps)
- Over-the-air (OTA) enabled firm-ware update support
- MESH Wireless technology provides ubiquitous coverage

The EcoNet Communication Gateway provides the central link between endpoint devices and your utility's mission-critical systems, enabling intelligent network control and monitoring. Its sophisticated MESH communication technology provides ubiquitous coverage throughout the network at a low cost. ecoNet gateways all have Ethernet , ZigBee and 5GHz. ecoNet s patent pending management software provides the ability to mix and match the different systems to achieve maximum efficiency in the network. ecoNet provides a scalable broadband infrastructure that will perform well into the future. It features robust security to ensure full regulatory compliance and network safety. The ecoNet gateway provides a highly-reliable connection to Intelagrid's intelligent end point products which include electricity, water, and gas meters over a secure infrastructure. Utilizing two IEEE standards based communication technologies, EcoNet will communicate with third party devices to create a platform for Demand Side Management, Smart Home and other Utility assets devices that require communication. EcoNet ensures greater reliability and redundancy on a future proof broadband network that is easily deployed and managed.

### Technical Specifications

Intelagrid Part Number	EcoNet5
Interface	10/100 Base t, half/full duplex. Rate auto negotiated (IEEE 802.3 compliant) Zigbee Wireless (IEEE 802.15.4 compliant)
Input Power	100 – 400 VAC 50-60 Hz
Signal Rate	5GHz, 50Mb & Zigbee 240 Kbps
Power Consumption	7.5 Watts maximum
Mechanical Dimensions	170 x 54.8 x 222 mm (6.69" x 2.16" x 8.74")
Weight	.69 Kg
Encryption	AES , DES support
Safety Standard Compliance	EN50178, Category III
Temperature	-20 C to +55 C
Humidity	5% - 85%
Casing	Polycarbonate UL 94-V0 IP67

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innovative smart grid solutions