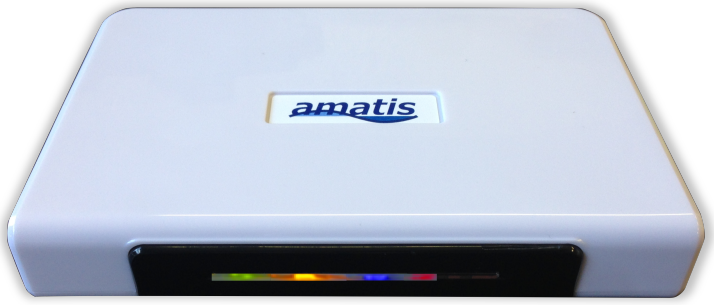
amatis™

THE ENERGY OF THINGS

AMBR 6LoWPAN BORDER ROUTER



PRODUCT OVERVIEW

AMBR is the brain of the Amatis Solution. The Amatis Border Router communicates wirelessly with meters, monitors, and controls configuring each device automatically to form a 6LoWireless mesh network. AMBR uploads real-time data from each device via high speed Ethernet or cellular network connections to our web-based user interface – the Amatis Energy Dashboard.

AMBR's solid-state design ensures the hardware is consistent and reliable. AMBR outperforms other routers on memory, stability, signal strength, and functionality, and affordability. Amatis devices connect to AMBR via 6LoWireless protocols.

AMBR's simple design requires no technical expertise or programming experience for installation.

FEATURES

- Plug-and-play installation
- LEDs indicate power and internet status
- Hosts up to 100 wireless devices
- Mesh communication up to 300 feet between nodes
- IP6 addressable wireless nodes
- Open source OS for third-party integration
- Real-time data uploaded to the Energy Dashboard

TECHNICAL SPECIFICATIONS

- 400Mhz ARM 926EJ-S Microprocessor
- 64MB RAM
- 512MB NAND Flash
- 10/100 Ethernet
- Two RS232 Serial Ports
- 1 External USB port; 1 Internal USB port
- Internal MicroSD Socket
- Linux OS running Contiki
- 2.4GHz IEEE 802.15.4 radio with antenna diversity
- 6LoWPAN Communications protocol
- Linux drivers for Atmel RF233 radio
- Available GPIOs
- Constrained Application Protocol (CoAP)
- +5V 2A DC power supply
- 12bit ADC
- Real-time clock with supercap backup
- Housing Dimensions: W=6.8" L=4.3" H=1.2"

AMATIS ENERGY DASHBORD

The Energy Dashboard gives users remote access to powerful web-based smart building controls. Real-time data and graphing tools enable building optimization, energy metering, and system-wide troubleshooting.