AC207
PRODUCT Brief

ALTIMA
COMMUNICATIONS

A BROADCOM Company

8-PORT ULTRA LOW POWER 10/100 ETHERNET BRIDGED REPEATER

AC207 FEATURES

- **The highest level of silicon integration achieved for an eight-port 10/100 bridged repeater**
- **The AC207 integrates:**
  - Eight transceivers of 10BASE-T/100BASE-TX
  - One uplink port
  - 10M repeater
  - 100M repeater
  - Two-port bridge including:
    - 32 KB memory for address table and packet buffer
    - Local MAC address filter
    - Address table up to 1K entries
- **MII or 7-wire port**
- **Fully compliant auto-negotiation**
- **Very small package – 128-pin PQFP**
  - 280 sq. mm footprint
- **Very low power – typical < 1.8W**
  - Selectable TX drivers for 1:1 or 1.25:1 transformers to enable additional power reduction
- **Cable detect mode – typical < .32W**
- **Power down mode – typical < .08W**

SUMMARY OF BENEFITS

- **AC207 is a member of the AC208 product family with the same architecture and fabrication technology. Other members in the product family include AC208, AC206, AC205 and AC205i.**
- **Provides easy product migration.**
- **Provides seamless integration for WAN connections and system expansion.**
- **Includes lowest overall cost and form factor for 10/100 repeater hub design and SOHO gateway and router design.**
- **Field-proven, industry-standard 10BASE-T/100BASE-TX Fast Ethernet transceivers lower overall system interoperability and reliability risks.**
- **Integrated memory reduces component cost and manufacturing and testing costs.**
- **Low power consumption and low heat dissipation allows high design density and low system cost.**
- **EEPROM-configured system parameter enables cost-sensitive architecture.**
- **Configurable MII or 7-wire interface allows versatile application with WAN connectivity.**

AC207 System Block Diagram

ALTIMA COMMUNICATIONS, INC. CONFIDENTIAL