



# DM9000AEP Product Brief

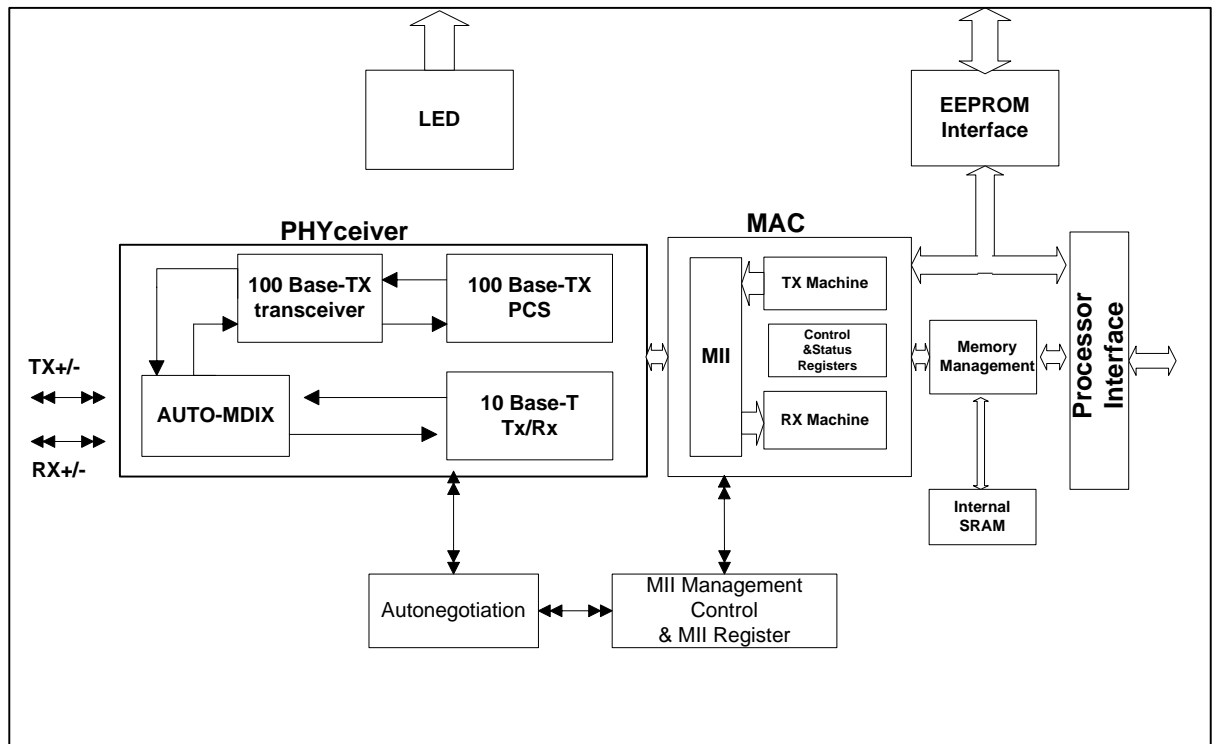
## Ethernet Controller with General Processor Interface

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The DM9000A is a fully integrated and cost-effective low pin count single chip Fast Ethernet controller with a general processor interface, a 10/100M PHY and 4K Dword SRAM. It is designed with low power and high performance process that support 3.3V with 5V IO tolerance.

The DM9000A supports 8-bit and 16-bit data interfaces to internal memory accesses for various processors. The PHY of the DM9000A can interface to the UTP3, 4, 5 in 10Base-T and UTP5 in 100Base-TX with HP Auto-MDIX. It is fully compliant with the IEEE 802.3u Spec. Its auto-negotiation function will automatically configure the DM9000A to take the maximum advantage of its abilities. The DM9000A also supports IEEE 802.3x full- duplex flow control..

## Block Diagram



## Specifications

- 48-pin LQFP
- Supports processor interface: byte/word of I/O command to internal memory data operation
- Integrated 10/100M transceiver with HP Auto-MDIX
- Supports back pressure mode for half-duplex mode flow control
- IEEE802.3x flow control for full-duplex mode
  
- Supports wakeup frame, link status change and magic packet events for remote wake up
- Support 100M Fiber interface.
- Integrated 16K Byte SRAM
- Build in 3.3V to 2.5V regulator
- Supports early Transmit
- Supports IP/TCP/UDP checksum generation and checking
- Supports automatically load vendor ID and product ID from EEPROM
- Optional EEPROM configuration
- Very low power consumption mode:
  - Power reduced mode (cable detection)
  - Power down mode
  - Selectable TX drivers for 1:1 or 1.25:1 transformers for additional power reduction.
- Compatible with 3.3V and 5.0V tolerant I/O

## Application

VoIP CPE (ATA, IP Phone, Video Phone)  
IP STB, IPC, Internet Radio

## Ordering Information

Part Number	Pin Count	Package
DM9000AE	48	LQFP
DM9000AEP	48	LQFP (Pb-Free)

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