

## Embedded networking and Communication IC's

### General Features

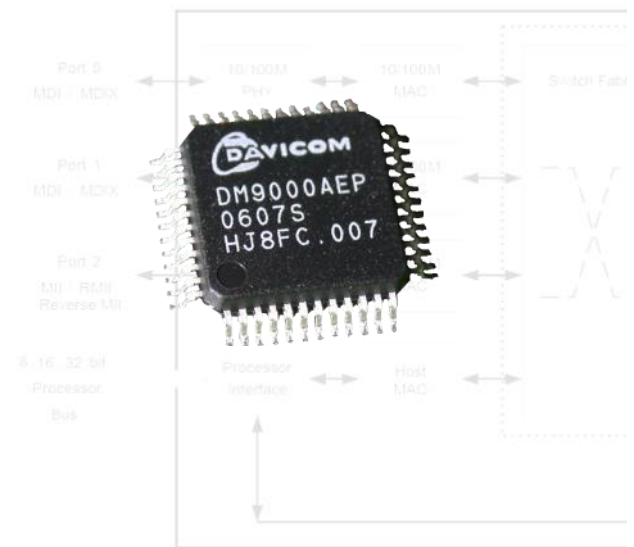
- Direct foundry support for high quality production
- Commercial and industrial temperature range
- Low current consumption with analog PHY
- Strong software driver development team
- Experienced in mixed signal design and high integration

### DM9102 / DM90xx Fast Ethernet MAC+PHY Controller

The single-port embedded ethernet controller chips support **8/16/32-Bit parallel and PCI Bus** Interfaces. They integrate a Fast Ethernet MAC+PHY and 4k Dword SRAM in a low power and high performance process that supports 3.3V with 5V IO tolerance. All controllers are fully compliant to IEEE802.3 and support HP's **Auto MDI-X** feature.

DM9000A, DM9010 and DM9102 are based on a power saving analog manufacturing process. DM9000B, DM9010B and DM9102H are more cost-effective due to a digital signal process. They are also available in industrial temp. range and 100% backward compatible to their predecessors.

All controllers support **generation and validation of TCP/IP and UDP checksum** to reduce application controller load. **Early TX** minimizes the latency of the device.



Typ	Parameter	Interface			Ext. Interface	Copper	MDI-X PHY	Temperature range		Current [max.]	Package
		8/16-Bit	32-Bit	PCI				MII / RMII	0°...70°C		
	DM9008C	✓				10M	✓	✓		130+40mA*	LQFP 48
	DM9000A	✓				10/100M	✓	✓		52+40mA*	LQFP 48
	DM9000B	✓				10/100M	✓	✓	✓	130+40mA*	LQFP 48
	DM9000	✓	✓		✓	10/100M		✓		60+40mA*	LQFP 100
	DM9010	✓	✓		✓	10/100M	✓	✓		52+40mA*	LQFP 100
	DM9010B	✓	✓		✓	10/100M	✓		✓	130+40mA*	LQFP 100
	DM9102D			✓	✓	10/100M	✓	✓		52+40mA*	LQFP 128
	DM9102H			✓	✓	10/100M	✓	✓	✓	130+40mA*	LQFP 128

\*with transformer

