

SUPERLINK™-MLP ES2841/ES2842

CONNECT ANYWHERE

The ES2841/2842, ESS's first LAN Modem combo chipset for the PCI bus, provides desktop and notebook computers with greater connectivity to both packet networks and telephone networks.

The ES2841/2842 devices combine a V.90/V.92 modem with control buffers, an on-chip codec, and an IEEE 802.3 compatible Ethernet MAC controller equipped with an analog phoneline interface and a PCI bus interface.

The ES2841/2842 is also capable of providing a home network connection that complies with the Home Phoneline Networking Alliance (HomePNA) 1Mbps (HPNA 1.1) specification.



The ES2841/2842 LAN module supports 100Base-TX (100Mbps) and 10Base-T (10Mbps) full-duplex operations and HomePNA 1Mbps operation. It includes an MII and RMII interface enabling it to interface with an external PHY transceiver used for either a LAN or HPNA-based chipset.

HIGHLIGHTED FEATURES

- V.90/V.92 analog Data/Fax/TAM modem
- 10/100 Mbps LAN or 1 Mbps HPNA networking capability
- Integrated on-chip 10/100 Mbps Media Access Control (MAC) controller capable of interfacing with 10Base-T PHY and 100Base-TX PHY transceivers
- Media Independent Interface (MII) with 1M8 HomePNA PHY for connecting to external 10/100 Mbps PHY transceiver
- Reduced Media Independent Interface (RMII) for connecting to external 10/100 Mbps PHY transceiver
- Full-duplex operation supported in MII and RMII ports with independent Transmit (TX) and Receive (RX) channels
- Support for IEEE 802.3x flow control and IEEE 802.3u auto negotiation for 10Base-T and 100Base-TX
- EEPROM interface for subsystem ID and subsystem vendor ID
- PC99 and PC2001 compliant
- Wake-On-Ring and Wake-On-LAN capability



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