

USB Charger Overvoltage Surge and ESD Protection 12-DSBGA -40°C to 85°C

Manufacturers	Microchip Technology, Inc
Package/Case	LQFP-64
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for LAN83C185-JT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The Microchip LAN83C185 is a low-power, highly integrated analog interface IC for high-performance embedded Ethernet applications. The LAN83C185 requires only a single +3.3V supply.

The LAN83C185 consists of an encoder/decoder, scrambler/descrambler, transmitter with wave-shaping and output driver, twisted-pair receiver with on-chip adaptive equalizer and baseline wander (BLW) correction, clock and data recovery, and Media Independent Interface (MII).

The LAN83C185 is fully compliant with IEEE 802.3/802.3u standards and supports both 802.3u-compliant and vendor-specific register functions. It contains a full-duplex 10BASE-T/100BASE-TX transceiver and supports 10 Mbps (10BASE-T) operation on Category 3 and Category 5 unshielded twisted-pair cable, and 100 Mbps (100BASE-TX) operation on Category 5 unshielded twisted-pair cable.

*The LANCheck online design review service is subject to Microchip's Program Terms and Conditions and requires a myMicrochip account.

Please consider this device LAN8710A, LAN8720A, LAN8740A, LAN8742A

Features

Note: The LAN83C185 is not recommended for new designs. The LAN8710A/LAN8720A are the suggested replacement devices for this product.

Features

Single Chip Ethernet PHY

Fully Compliant with IEEE 802.3/802.3u Standards

10BASE-T and 100BASE-TX Support

Supports Auto-Negotiation and Parallel Detection

Automatic Polarity Correction

Integrated DSP with Adaptive Equalizer

Baseline Wander (BLW) Correction

Media Independent Interface (MII)

802.3u Compliant Register Functions

Vendor Specific Register Functions

Comprehensive Power Management Features

General Power-down Mode

Energy Detect Power-down Mode

Low profile 64-pin TQFP RoHS compliant package

Single +3.3V Supply with 5V Tolerant I/O

0.18 Micron Technology

Low Power Consumption

Operating Temperature 0° C to 70° C

Internal +1.8V Regulator

Related Products



[LAN8740A-EN](#)

Microchip Technology, Inc
QFN-32



[LAN8700C-AEZG-TR](#)

Microchip Technology, Inc
VQFN-36

Application

LAN on Motherboard

10/100 PCMCIA/CardBus
Applications

Embedded Telecom
Applications

Video Record/Playback
Systems

Cable Modems and Set-Top
Boxes

Digital Televisions

Wireless Access Points



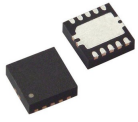
[LAN8700C-AEZG](#)

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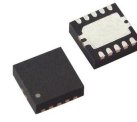
[LAN8700IC-AEZG-TR](#)

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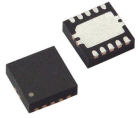
[LAN9303-ABZJ](#)

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VQFN-56



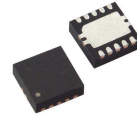
[LAN9303I-ABZJ](#)

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