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LAN8187I-JT

Data Sheet

RFO

High-Performance MII and RMII 10/100 Ethernet PHY with HP Auto-MDIX, Ethernet IC HiPerfrm Ethrnt PHY

Manufacturers	Microchip Technology, Inc	Substance and the second second
Package/Case	LQFP-64	TREATER STREATER
Product Type	Interface ICs	in the
RoHS	Rohs	
Lifecycle		Images are for reference only

General Description

The Microchip LAN8187/LAN8187 is a low-power industrial temperature (LAN8187i), variable I/O voltage, Ethernet Transceiver (PHY) with HP Auto-MDIX for high-performance embedded Ethernet applications. The LAN8187/LAN8187 ican be configured to operate on a single 3.3V supply utilizing an integrated 3.3V to 1.8V linear regulator. An option is available to disable the linear regulator to optimize system designs that have a 1.8V power plane available.

Please submit RFQ for LAN8187I-JT or Email to us: sales@ovaga.com We will contact you in 12 hours.

The LAN8187/LAN8187i consists of an encoder/decoder, scrambler/descrambler, wave-shaping transmitter, output driver, twisted-pair receiver with adaptive equalizer and baseline wander (BLW) correction, and clock and data recovery functions. The LAN8187/LAN8187i can be configured to support either the Media Independent Interface (MII) or the Reduced Media Independent Interface (RMII).

The LAN8187/LAN8187i is compliant with IEEE 802.3-2005 standards (MII Pins tolerant to 3.6V) and supports both IEEE 802.3-2005 compliant and vendor-specific register functions. It contains a full-duplex 10-BASE-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 deviceLAN8710A,LAN8720A,LAN8740A,LAN8742A

Features	Application
Note: The LAN8187/LAN8187i are not recommended for new designs. The LAN8710A/LAN8720A/LAN8740A/LAN8742A are the suggested replacement devices for these products.	Set-Top Boxes
Features	Network Printers and Servers
Single-Chip Ethernet Physical Layer Transceiver (PHY)	LAN on Motherboard
ESD Protection levels of ±8kV HBM without external protection devices	10/100

Ovaga Technologies Limited

Email: sales@ovaga.com

Comprehensive flexPWR® Technology	Embedded Telecom		
Flexible Power Management Architecture	Applications		
LVCMOS Variable I/O voltage range: +1.6V to +3.6V	Video Record/Playback Systems		
Integrated 3.3V to 1.8V regulator for optional single supply operation	Cable Modems/Routers		
Regulator can be disabled if 1.8V system supply is available	DSL Modems/Routers		
Performs HP Auto-MDIX in accordance with IEEE 802.3ab specification	Digital Video Recorders		
Automatic Polarity Correction	Personal Video		
Latch-Up Performance Exceeds 150mA per EIA/JESD 78, Class II	Recorders		
Energy Detect power-down mode	IP and Video Phones		
Low Current consumption power-down mode	Wireless Access Points		
Low operating current consumption:	Digital Televisions		
39mA typical in 10BASE-T and	Digital Media Adaptors/Servers		
79mA typical in 100BASE-TX mode	POS Terminals		
Supports Auto-negotiation and Parallel Detection	Gaming Consoles		
Supports the Media Independent Interface (MII) and Reduced Media Independent Interface (RMII)	Security Systems		
Compliant with IEEE 802.3-2005 standards	Access Control		
MII Pins tolerant to 3.6V			
IEEE 802.3-2005 compliant register functions			
Integrated DSP with Adaptive Equalizer			
Baseline Wander (BLW) Correction			
Vendor Specific register functions			
Low profile 64-pin TQFP RoHS compliant package (10 x 10 x 1.4mm)			
4 LED status indicators			
Commercial Operating Temperature 0° C to 70° C			
Industrial Operating Temperature -40° C to 85° C version available (LAN8187i)			

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LAN8740A-EN

Microchip Technology, Inc QFN-32



LAN8700C-AEZG

Microchip Technology, Inc VQFN-36



Microchip Technology, Inc

LAN9303-ABZJ

VQFN-56



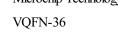
LAN9500AI-ABZJ-TR Microchip Technology, Inc VQFN-56





LAN8700IC-AEZG-TR Microchip Technology, Inc

VQFN-36

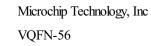


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