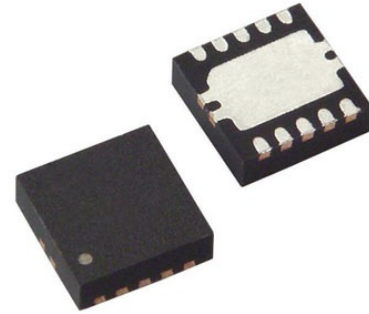


Ethernet ICs 3Port 10/100 Managed Ethernet Switch

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	VQFN-56
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LAN9354I/ML or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

Microchip's LAN9354/LAN9354i is a high-performance, small-footprint, full-featured 3-port managed Ethernet switch. This device is application-optimized for consumer, embedded and Industrial electronic designs which require a highly integrated, cost effective device with switching functionality, flexibility and ease of integration. Featuring a small form factor, the LAN9354/9354i supports compact PCB. The virtual PHY feature mimics a single PHY connection through the RMII interface to the host SoC, which can reduce software development time. This feature also allows system designers to swap the Ethernet switch with a single PHY to create multiple products from the same software driver. IEEE1588v2 is supported via an integrated hardware time stamp unit, which supports end-to-end and peer-to-peer transparent clocks. The LAN9354 complies with the IEEE 802.3 (full/half-duplex 10BASE-T and 100BASE-TX) Ethernet protocol, IEEE 802.3az Energy Efficient Ethernet (EEE) (100Mbps only), and 802.1D/802.1Q network management protocol specifications, enabling compatibility with industry standard Ethernet and Fast Ethernet applications. 100BASE-FX is supported via an external fiber transceiver (SFP and SFF Physical medium).

Microchip's complimentary LANCheck® design review service is available for customers who have selected our products for their application\*.

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

# Features

## Highlights

IEEE 1588v2 Hardware Time Stamping

IEEE 802.3az Energy Efficient Ethernet

Wake On LAN

Cable Diagnostics

Per-port IEEE 802.1Q VLAN support (up to 16 VLAN groups)

IGMP v1/v2 monitoring for multicast packet filtering

Optional EEPROM or external CPU serial management support via an I2C™ interface

Virtual PHY

Integrated regulators require a single 3.3V supply

Supports Fiber Interface through SFP and SFF Physical medium

VoIP/Video Phone Systems

Target Applications

Security and Surveillance

Test/Measurement Equipment

Cable, Satellite, and IP Set-top Boxes (STBs)

Digital Televisions (DTVs)

Digital/Personal Video Recorders (DVRs/PVRs)

Building Automation

42 per-port MIB counters for efficient network management

Home Gateways/Consumer Audio/Video

Industrial Automation and Control

Package Options

8x8mm, 56-pin QFN

Industrial temperature (-40° to 85°C) options available (LAN9354i)

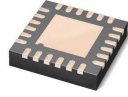
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## Related Products



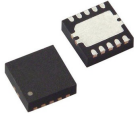
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Microchip Technology, Inc  
LDFN



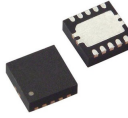
[LAN8720A-CP-ABC](#)

Microchip Technology, Inc  
QFN-24



[LAN8671B1-E/U3B](#)

Microchip Technology, Inc  
VQFN



[LAN8670B1-E/LMX](#)

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VQFN



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