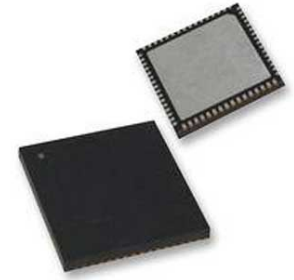



## Ethernet CTLR Single Chip 10Mbps/100Mbps 3.3V 64-Pin QFN EP Tray



Images are for reference only

[Inquiry](#)

|                      |  |
|----------------------|--|
| <b>Manufacturer:</b> | <a href="#">Microchip Technology, Inc</a>  |
| <b>Package/Case:</b> | QFN64  |
| <b>Product Type:</b> | Communication & Networking ICs   |
| <b>RoHS:</b>         | RoHS Compliant/Lead free  |
| <b>Lifecycle:</b>    | Active   |

### General Description

Microchip's LAN9512/LAN9512i are the industry's first fully-integrated, Hi-Speed USB 2.0 hub and high-performance 10/100 Ethernet controllers. LAN9512/LAN9512i are specifically designed to provide system architects with a low-cost, power-efficient, small-footprint USB to Ethernet and multi-port USB connectivity solution in a single package.

The LAN9512/LAN9512i contain a Hi-Speed USB 2.0 hub with two fully-integrated downstream USB 2.0 PHYs, an integrated upstream USB 2.0 PHY, a 10/100 Ethernet MAC/PHY controller, and an EEPROM controller. This offers Microchip's highest level of USB 2.0 and 10/100 Ethernet compliance and interoperability. Additionally, LAN9512/LAN9512i devices simplify system design by leveraging the existing USB stack and reducing the PCB footprint by up to 65% compared to discrete competitive solutions. USB-based networking technology offers a cost-effective and smart design alternative to traditional PCI/PCI-Express networking solutions due to the flexibility of routing and placement of Ethernet and USB connectivity ports.

Microchip's complimentary and confidential LANCheck® and USBCheck™ online design review services are available for customers who have selected our products for their application design-in\*.

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

For product comparison, please consider:LAN9513,LAN9514

### Key Features

- Fully-integrated 2-port high speed USB 2.0 hub and 10/100 Ethernet controller
- Built-in ±8kV/15kV contact/air discharge ESD protection on both USB and Ethernet PHYs
- 24MHz Clock out provided to connect additional USB hubs
- Integrated 10/100 Ethernet MAC with full-duplex support
- Integrated 10/100 Ethernet PHY with HP Auto-MDIX
- Implements reduced power operating modes
- Integrated USB termination pull-up/pull-down resistors
- Internal short-circuit protection of USB differential signal pins
- Full- and half-duplex support with flow control
- Supports bus-powered and self-powered operation

## Recommended For You

---

### LAN7500-ABZJ

Microchip Technology, Inc  
QFN56

### LAN9514i-JZX

Microchip Technology, Inc  
QFN64

### LAN7500-ABZJ-TR

Microchip Technology, Inc  
QFN56

### LAN7800/Y9X

Microchip Technology, Inc  
VQFN-48

### LAN7500i-ABZJ

Microchip Technology, Inc  
QFN56

### LAN9730-ABZJ

Microchip Technology, Inc  
QFN56

### LAN9513i-JZX

Microchip Technology, Inc  
QFN64

### LAN7500I-ABZJ-TR

Microchip Technology, Inc  
QFN-56

### LAN7850-I/8JX

Microchip Technology, Inc  
VQFN56

### LAN9512i-JZX

Microchip Technology, Inc  
QFN64

### LAN7800/VSX

Microchip Technology, Inc  
VQFN48

### LAN7800-I/VSX

Microchip Technology, Inc  
VQFN48

### LAN7800-I/Y9X

Microchip Technology, Inc  
VQFN48

### LAN9514-JZX-TR

Microchip Technology, Inc  
QFN-64

### LAN9514-JZX

Microchip Technology, Inc  
QFN64