


Ethernet CTLR Single Chip 10Mbps/100Mbps 3.3V 128-Pin TQFP Tray

Manufacturer:	Microchip Technology, Inc
Package/Case:	QFP
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

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General Description

The Microchip LAN91C111 is designed to facilitate the implementation of a third generation of Fast Ethernet connectivity solutions for embedded applications. For this third generation of products, flexibility and integration dominate the design requirements. The LAN91C111 is a mixed signal Analog/Digital device that implements the MAC and PHY portion of the CSMA/CD protocol at 10 and 100 Mbps. The design will also minimize data throughput constraints utilizing a 32-bit, 16-bit or 8-bit bus Host interface in embedded applications.

The total internal memory FIFO buffer size is 8 Kbytes, which is the total chip storage for transmit and receive operations.

The Microchip LAN91C111 is software compatible with the LAN9000 family of products.

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For product comparison, please consider:LAN9218

Key Features

Single chip Ethernet controller

Dual speed - 10/100Mbps

Fully supports full duplex switched Ethernet

Supports burst data transfer

8kB Internal memory for receive and transmit FIFO buffers

Enhanced power management

Optional configuration via serial EEPROM interface

Supports 8, 16 and 32 bit CPU accesses

Internal 32-bit wide data path (into packet buffer memory)

Built-in transparent arbitration for slave sequential access architecture

Flat MMU architecture with symmetric transmit and receive structures and queues

3.3V Operation with 5V tolerant I/O buffers

Single 25MHz reference clock for both PHY and MAC

External 25MHz output pin for an external PHY supporting PHY's physical media

Low power CMOS design

Supports multiple embedded processor host interfaces

3.3V MII (Media Independent Interface) MAC-PHY interface running at nibble rate

MDIO management serial interface



Recommended For You

LAN91C111-NE

Microchip Technology, Inc

QFP

LAN91C93I-MU

Microchip Technology, Inc

QFP

LAN9420I-NU

Microchip Technology, Inc

TQFP128

LAN91C96-MU

Microchip Technology, Inc

TQFP100

LAN91C111i-NC

Microchip Technology, Inc

QFP

LAN91C96-MS

Microchip Technology, Inc

QFP

LAN91C111I-NU

Microchip Technology, Inc

TQFP128

LAN91C111-NC

Microchip Technology, Inc

QFP

LAN9252I/ML

Microchip Technology, Inc

QFN-64

LAN9215-MT

Microchip Technology, Inc

QFP100

LAN91C111I-NS

Microchip Technology, Inc

QFP128

LAN9118-MT

Microchip Technology, Inc

TQFP100

LAN9252I/PT

Microchip Technology, Inc

TQFP64

LAN9221I-ABZJ

Microchip Technology, Inc

QFN56

LAN91C111-NS

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