

LAN91C111i-NC

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

Manufacturer:	Microchip Technology, Inc.
Package/Case:	QFP
Product Type:	Communication & Networking ICs
Lifecycle:	Obsolete



Images are for reference only

Inquiry

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 32bit, 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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Key Features

Features

Single Chip Ethernet Controller

Dual Speed - 10/100 Mbps

Fully Supports Full Duplex Switched Ethernet

Supports Burst Data Transfer

8 Kbytes Internal Memory for Receive and Transmit FIFO Buffers

Enhanced Power Management Features

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 25 MHz Reference Clock for Both PHY and MAC

External 25 MHz Output Pin for an External PHY Supporting PHY's Physical Media

AVAQ SEMICONDUCTOR CO., LIMITED

Low Power CMOS Design

Supports Multiple Embedded Processor Host Interfaces

ARM SH Power PC Coldfire 680X0, 683XX MIPS R3000 3.3V MII (Media Independent Interface) MAC-PHY Interface Running at Nibble Rate MII Management Serial Interface 128 Pin QFP RoHS compliant package 128 Pin TQFP 1.0 mm height RoHS compliant package Commercial Temperature Range from 0°C to 70°C (LAN91C111) Industrial Temperature Range from -40°C to 85°C (LAN91C111i) Network Interface Fully Integrated IEEE 802.3/802.3u - 100BASE-TX/10BASE-T Physical Layer Auto Negotiation: 10/100, Full/Half Duplex On Chip Wave Shaping - No External Filters Required Adaptive Equalizer Baseline Wander Correction LED Outputs (User Selectable - Up to Two LED Functions at One Time) Link Activity Full Duplex 10/100 Transmit Receive



Recommended For You

LAN91C111-NE Microchip Technology, Inc QFP

LAN91C96-MU Microchip Technology, Inc TQFP100

LAN91C111-NC Microchip Technology, Inc QFP

LAN91C1111-NS Microchip Technology, Inc QFP128

LAN92521/PT Microchip Technology, Inc TQFP64 LAN91C93I-MU Microchip Technology, Inc QFP

LAN91C96-MS Microchip Technology, Inc QFP

LAN92521/ML Microchip Technology, Inc QFN-64

LAN91C111-NU Microchip Technology, Inc QFP

LAN92211-ABZJ Microchip Technology, Inc QFN56 LAN94201-NU Microchip Technology, Inc TQFP128

LAN91C1111-NU Microchip Technology, Inc TQFP128

LAN9215-MT Microchip Technology, Inc QFP100

LAN9118-MT Microchip Technology, Inc TQFP100

LAN91C111-NS Microchip Technology, Inc QFP