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# W6100

## Overview



-> 변경하세요

The W6100 chip designed with Hardwired TCP/IP, WIZnet technology, is an embedded Ethernet Controller that enables easier Internet Connection for embedded Systems using SPI (Serial Peripheral Interface) and Parallel System BUS. W6100 suits users in need of stable Internet Connectivity best, using a single chip to implement TCP/IP Dual Stack, 10/100 Ethernet MAC and PHY. Hardwired TCP/IP Stack supports TCP, UDP, IPv4, IPv6, ICMP, ARP, IGMP, and PPPoE, etc which has been proven through various Applications over many years. W6100 uses a 16 Kbytes Internal Memory as Data Communication. With W6100, users can implement the Ethernet Application they need by using a simple SOCKET Program instead of handling a complex Ethernet Controller. It is possible to use 8 Independent Hardware SOCKETS simultaneously. SPI (Serial Peripheral Interface) and Parallel System BUS is provided for easy integration with the external MCU. The W6100 SPI supports 70 MHz speed. And also Parallel System Bus supports high speed Network Communication. In order to reduce Power Consumption of the System, W6100 provides WOL (Wake on LAN) and a Power Down Mode.

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## Features

- Support Hardwired Internet Protocols: TCP, UDP, WOL over UDP, ICMP, IGMPv1/v2, IPv4/IPv6, ARP, PPPoE
- Support 8 Independent Hardware SOCKETS simultaneously
- Support SOCKET-less Command: ARP-Request, PING-Request, RS, DAD,
- Support Ethernet Power Down Mode & Main Clock gating for power save
- Support Wake on LAN over UDP
- Support Serial & Parallel Host Interface: High Speed SPI(MODE 0/3), Parallel System Bus with 2 Address signal & 8bits Data
- Internal 16 Kbytes Memory for TX/ RX Buffers
- Not support IP Fragmentation
- Not Maintain ARP-cache Table
- 10BaseT/100BaseTX Ethernet PHY Integrated
- Support Auto Negotiation (Full/Half Duplex, 10/100 Speed)
- Support Auto-MDIX when Auto-Negotiation Mode.
- 3.3V operation with 5V I/O signal tolerance
- LED outputs (Full/Half Duplex, Link, 10/100 Speed, Active)
- Two types of packages: 48 Pin LQFP & QFN Lead-Free Package (7x7mm, 0.5mm pitch)

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## Target Application

- Home Network Devices: Set-Top Boxes, PVRs, Digital Media Adapters
  - Serial-to-Ethernet: Access Controls, LED displays, Wireless AP relays, etc.
  - Parallel-to-Ethernet: POS / Mini Printers, Copiers
  - USB-to-Ethernet: Storage Devices, Network Printers
  - GPIO-to-Ethernet: Home Network Sensors
  - Security Systems: DVRs, Network Cameras, Kiosks
  - Factory, Building, Home Automations
  - Medical Monitoring Equipment
  - Embedded Servers
  - Internet of Things (IoT) Devices
  - IoT Cloud Devices
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