

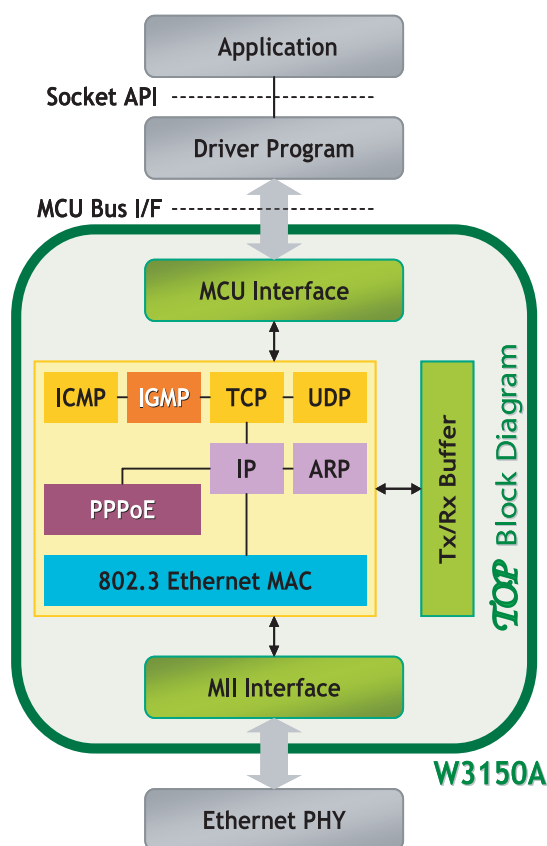
Hardwired TCP/IP Chip, W3150A



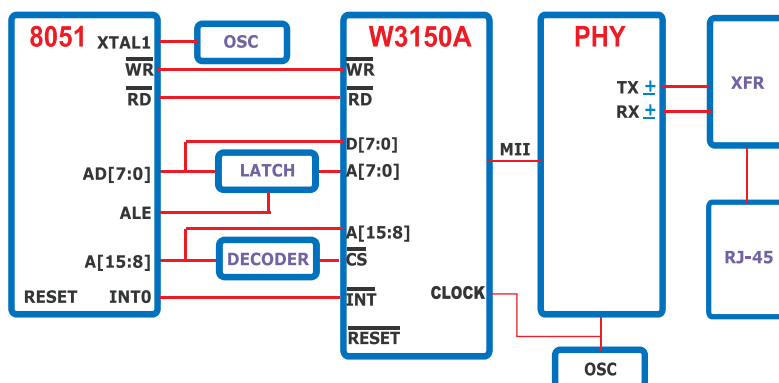
Features

- TCP, UDP, IP, ICMP, **IGMP**, ARP, **PPPoE**, MAC in Fully Hardwired Logic
- DHCP, TELNET, FTP, HTTP, DNS source codes are provided
- Supports 4 Independent Sockets Simultaneously
- 10/100 Base-T Ethernet (Auto Detection)
- High Throughput; 8051(max. 1Mbps), AVR(max. 8Mbps), ARM7(max. 20Mbps)
- Full-duplex Mode
- Standard MII Interface for Physical Layer
- 16Kbytes Data Buffer Embedded
- Simple Socket API Interface
- 3.3V Operation, 5V Tolerant I/Os
- Commercial Temperature Range from 0°C to 80°C
- All Source Codes are written in ANSI C totally free
- 64 pin LQFP Level 2 Lead-free Package

Block Diagram



Sample Schematic



Socket API

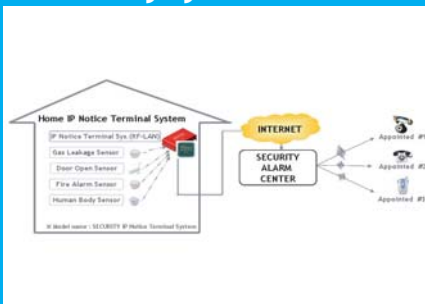
Functions	Operation
Sysinit	Initialize W3150A
Socket	Create a Socket
Connect	Attempt to Open a TCP Connection (Active Open)
Disconnect	Attempt to Close Terminate a TCP Connection
Listen	Accept a TCP Connection (Passive Open)
Send	Transmit Data through a TCP Socket
Recv	Receive Data through a TCP Socket
Sendto	Transmit Data through a UDP or RAW Socket
Recvfrom	Receive Data through a UDP or RAW Socket
Close	Close a Socket

Core Technology

TOP (TCP/IP Offload Platform) is Market-proven ASSP and Silicon-proven Custom ASIC.

TOP is a Fully Hardwired TCP/IP algorithm, which guarantees line speed by on-the-fly processing architecture that is independent of CPU. TOP eliminates CPU overhead by offloading TCP/IP processing and hence enhances overall system performance esp. in multimedia streaming application.

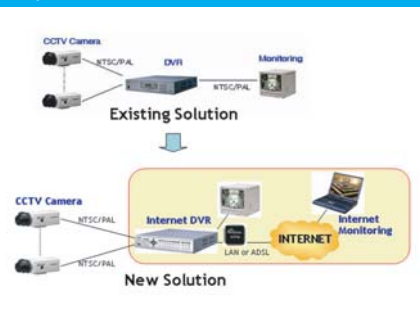
RF-Security System



RF-ID Reader



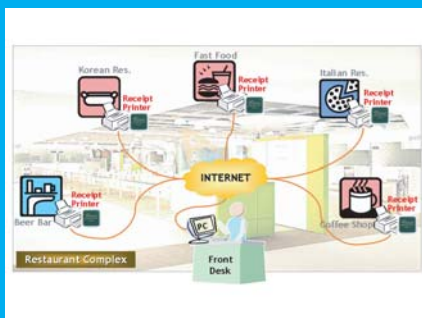
DVR



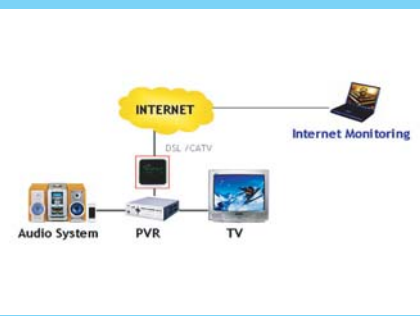
Serial-to-Ethernet



Internet Printer



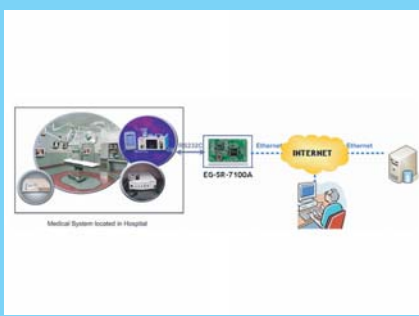
PVR



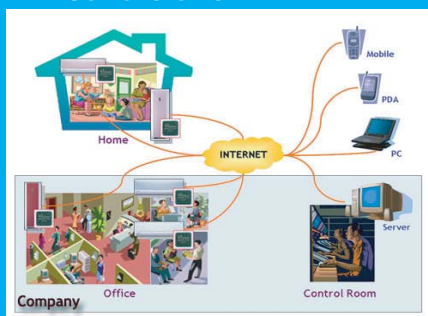
Electronic Scale



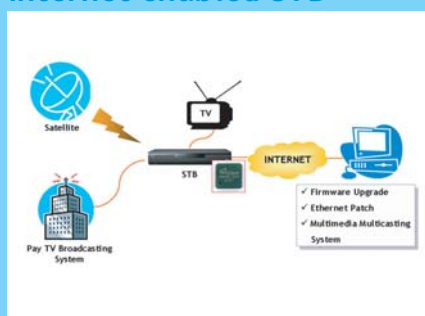
Medical Devices



Air Conditioner



Internet enabled STB



LCD Monitor



Evaluation Board for W3150A, "EVB-B1"

* Feature

- Full-duplex Data Transfer up to 8Mbps with Atmega128
- Internet Application Protocols: ANSI C Source Codes such as DHCP, etc.
- By using External 96 pin connectors, AVR's all pins can be used for developer



NM7010B

Product		Ordering Code	
EVB-AVR-W3150A	Base Board	EVB-B1	MB-EVB-X1
	MCU Module		PM-A1
	Network Module		NM7010B

* Contents

- Base Board + MCU Module + Network Module
- CD (Source codes, Schematics, Manuals)
- 12V 500mA Power Adapter
- Serial cable, UTP cable
- AVR-ISP cable

