Serial-to-Ethernet Gateway EG-SR-7150MJ

Ethernet Setting using Serial Command created amazing simpleness!

Any Terminal with Keypad or Button is enough. You don't need PC
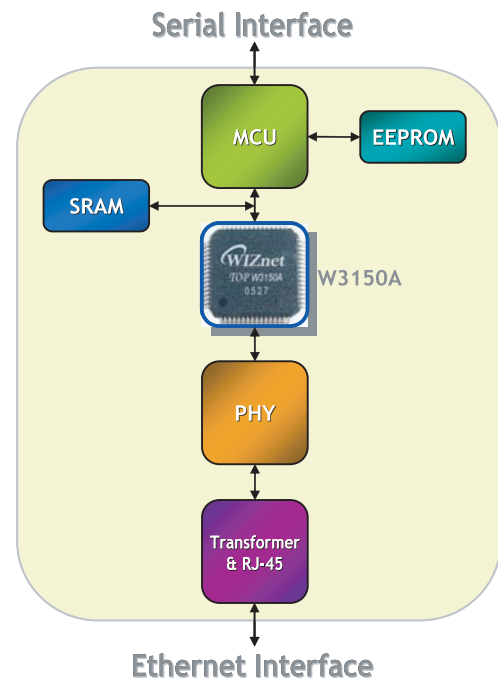
Features

- **Ready-to-Go Serial to Ethernet Gateway module mounted with RJ-45 connector**
- **Serial Command Support**
  - Simple Command Frame Format
  - Comprehensive & Readable Command Set for Network and Serial Settings
  - Available of on-site Configuration without PC
- **High Performance & Reliability**
  - Max. 230Kbps for Serial Transmission Speed
  - Implemented by W3150A WIZnet Chip (Fully Hardwired TCP/IP Stack)
- **Easy Interface & Powerful Functionality**
  - Configuration Tool Program : Firmware updating, Serial parameter setting, Ethernet Setting
  - Supporting Customization for any System or Application

Specification

Architecture	TCP/IP	W3150A
	PHY	RTL8201BL (Ethernet PHY)
	Serial	RS-232 (LVTTL)
	MCU	AT89C51RC2 (8bit MCU and 32K Flash)
	Memory	SRAM (32K)
Network	Interface	10/100 Mbps auto-sensing, RJ-45 Connector
	Protocol	TCP, UDP, IP ARP, ICMP, MAC, PPPoE
Serial	Signals	TXD, RXD, RTS, CTS, GND
	Parameters	Parity : None, Even, Odd Data bits : 7, 8 Flow Control : RTS/CTS, XON/XOFF
	Speed	Up to 230Kbps
Dimension		40mm x 55mm x 17mm
Connector Type		2mm Pitch 12 pins, 55x40mm
Input Voltage		3.3V
Power Consumption		150mA
Temperature		0℃ ~ 70℃ (Operation), -40℃ ~ 85℃ (Storage)
Humidity		10% ~ 90%

Block Diagram

Serial Interface

MCU — EEPROM

SRAM

WIZnet TOP W3150A 0527 — W3150A

PHY

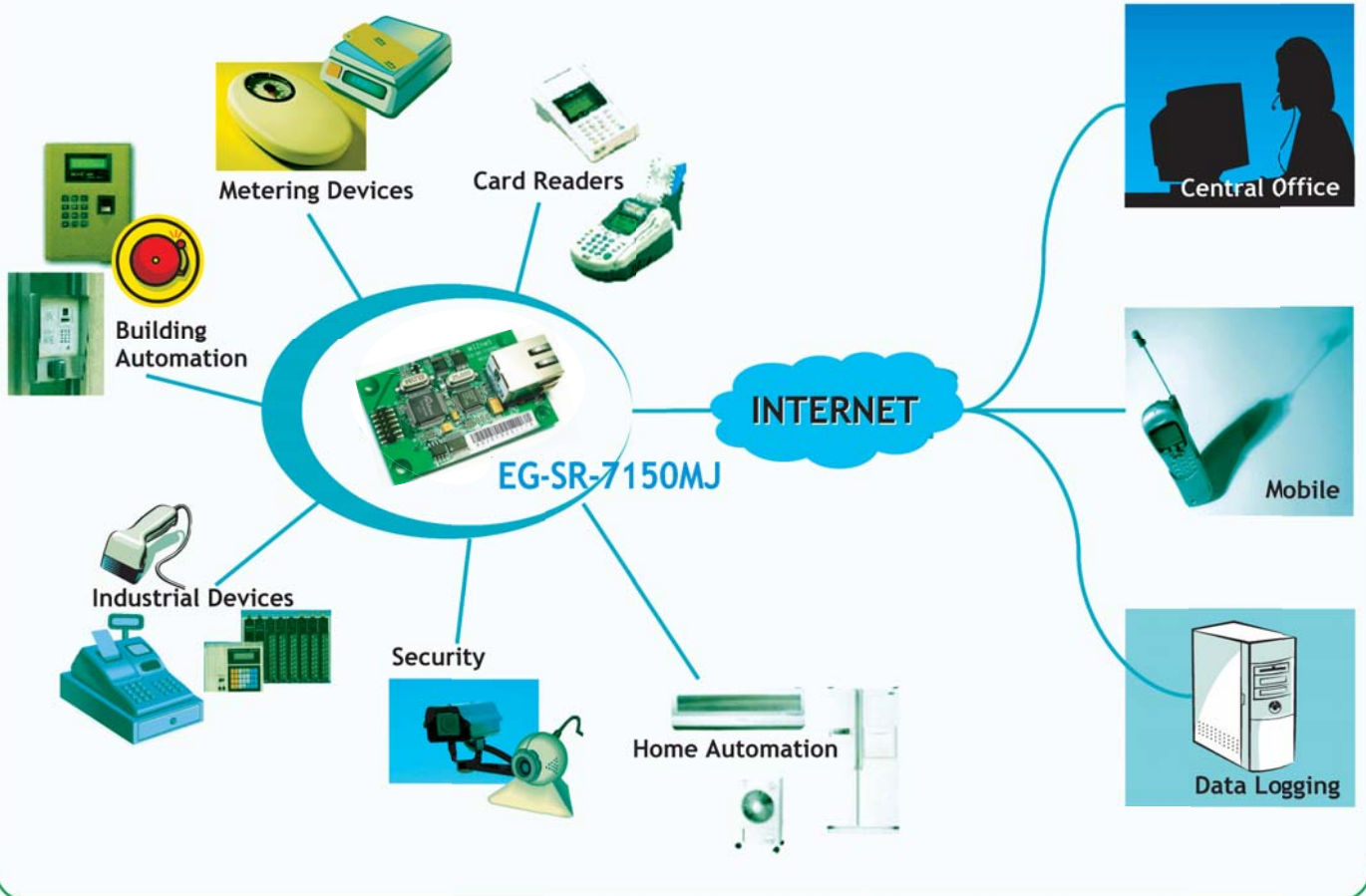Transformer & RJ-45

Ethernet Interface

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.
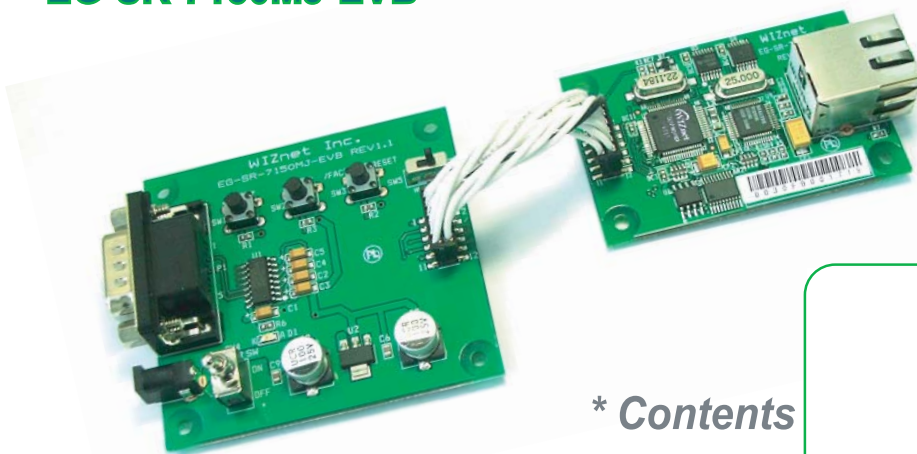
TOP eliminates CPU overhead by offloading TCP/IP processing and hence enhences overall system performance esp. in multimedia streaming application.

WIZnet
www.wiznet.co.kr

◎ Application References

Metering Devices

Card Readers

Central Office

Building Automation

EG-SR-7150MJ

INTERNET

Mobile

Industrial Devices

Security

Home Automation

Data Logging

◎ Evaluation Board for EG-SR-7150MJ

EG-SR-7150MJ-EVB

* Contents

- EG-SR-7150MJ-EVB
- CD (Configuration Program, Schematic, Manual)
- 5V 500mA Power Adapter
- Serial cable, UTP cable