

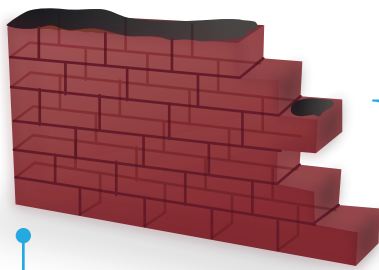


Internet **Offload** Processor

Unattackable



Unattackable



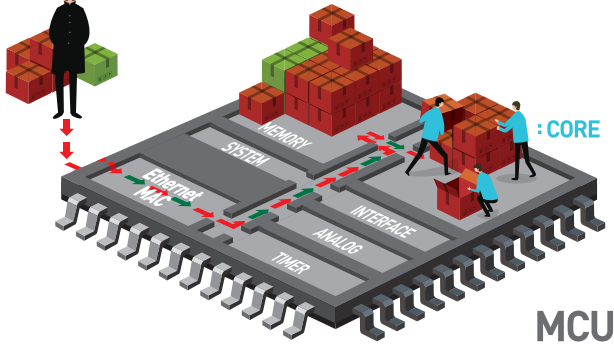
Unattackable

Hardware TCP/IP Firewall Processor

Software TCP/IP

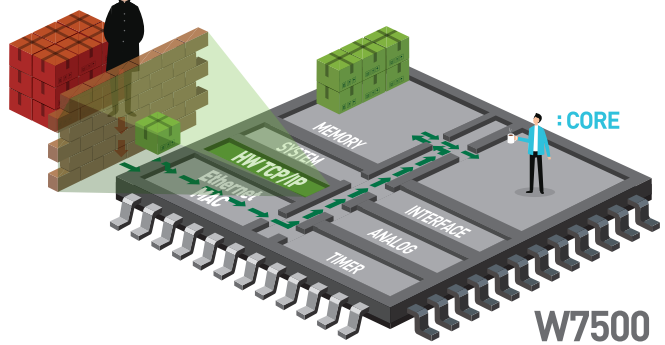
Hardware TCP/IP

DDoS/Flooding Attack



MCU

DDoS/Flooding Attack

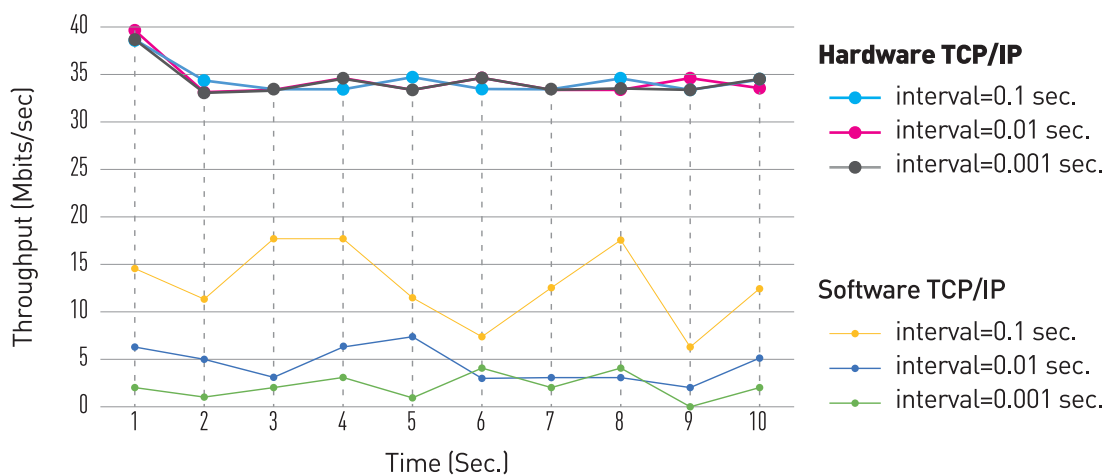


W7500

Comparison of Software & Hardware TCP/IP

	Software TCP/IP	Hardware TCP/IP
Platform	mbed LPC1768	W7500 EVB
Core	Cortex-M3	Cortex-M0
Flash / RAM (KB)	512/64	128/16
System clock(MHz)	96	48
Use DMA	0	0
Software	RTOS + lwIP	Non-OS + Firmware
Code Size (KB)	Flash : 64.5 RAM : 35.2	Flash : 9.09 RAM : 8.99
Compiler	web-compiler (mbed.org)	keil
Test tools	iperf.exe, scapy (python)	

Comparison of Network Performance by interval of syn-flood attack (DDoS)



WIZwiki W7500 Platform

wizwiki.net

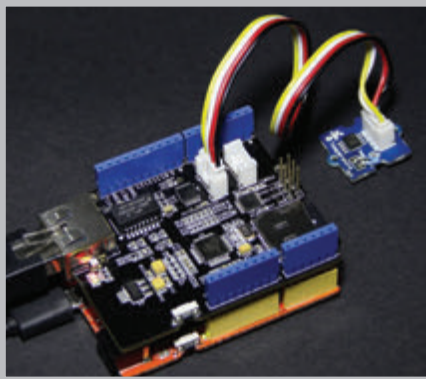
mbed-enabled / Arduino-compatible

ARM[®]mbed[™]

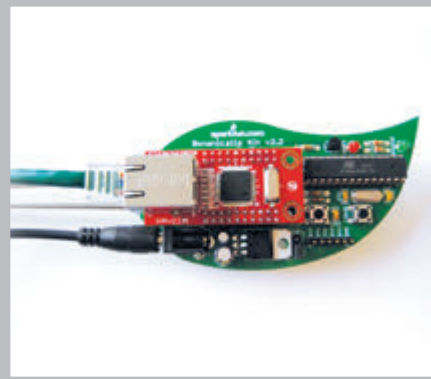


Arduino Ethernet Shield

More than 50 various Ethernet Shields from VARs and Clones in OSHW community



W5500 Ethernet Shield
Seeed Studio



Botanicalls (W5100)
Sparkfun



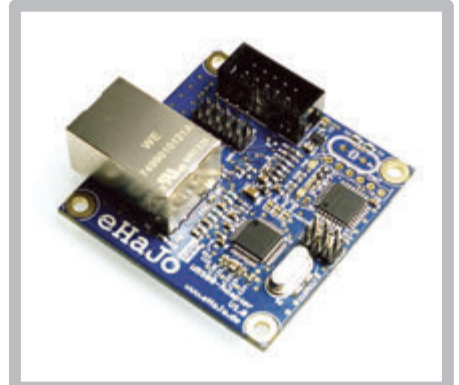
W5200 Ethernet Module
DF Robot



Iboard
ITEAD Studio



W5500 Microduino
Microduino



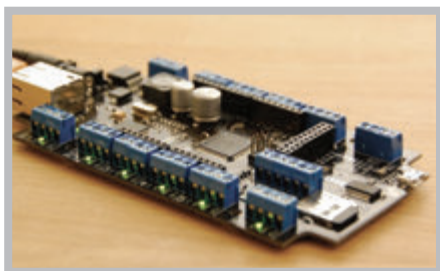
W5500 Network Adaptor
eHajo

Gartner Says By 2017, 50% of IoT Solutions Will Originate in Startups That Are Less Than 3 Years Old

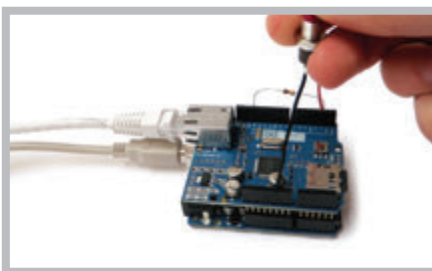


500 Prototypes & Tutorials & VAR products

WIZnetian Masterpiece



Haunt-Box
Kickstarter Crowd funded



Arduino Ethernet Shield Tutorial
Most Remarkable in Instrutables



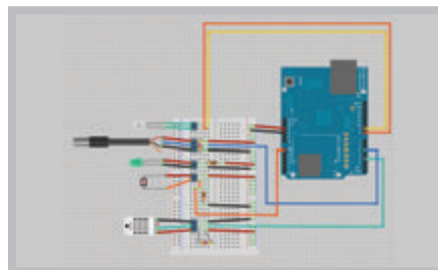
WIZnet W5500 & ioShield
Most Comprehensive Tutorial



gizDuino IOT-644
Best Seller VAR Products



Chimaera
Design Challenge First Prize



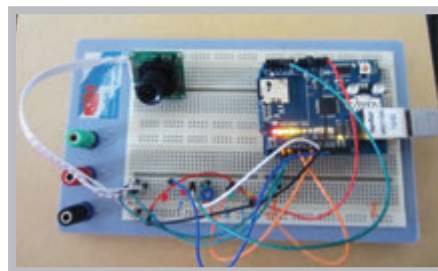
Arduino Aquaponic
WIZ Treasure #18



IOT & Cloud
Classrooms Access Control
over Near Field Communication



Gateway
Waspnote Mote Runner 6LoWPAN
Development Platform



Security
IPCAM, a autonomous IP camera
with Arduino and Adafruit serial JPG camera

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