



Internet **Offload** Processor

Unattackable



Unattackable

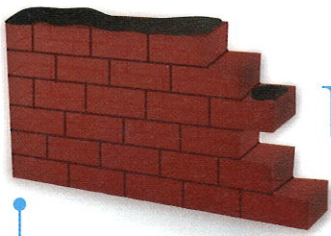
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Unattackable

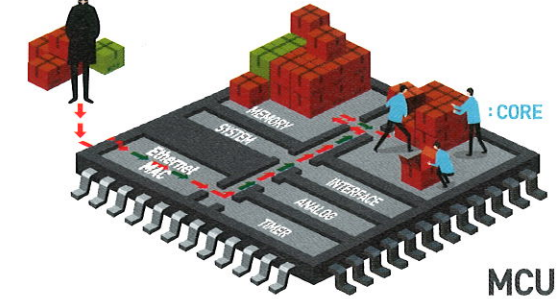
Hardware TCP/IP Firewall Processor

Software TCP/IP

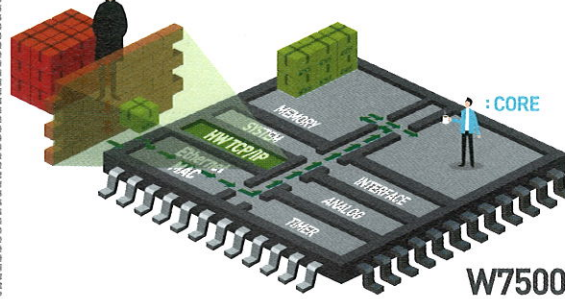
Hardware TCP/IP

DDoS/Flooding Attack

DDoS/Flooding Attack



MCU

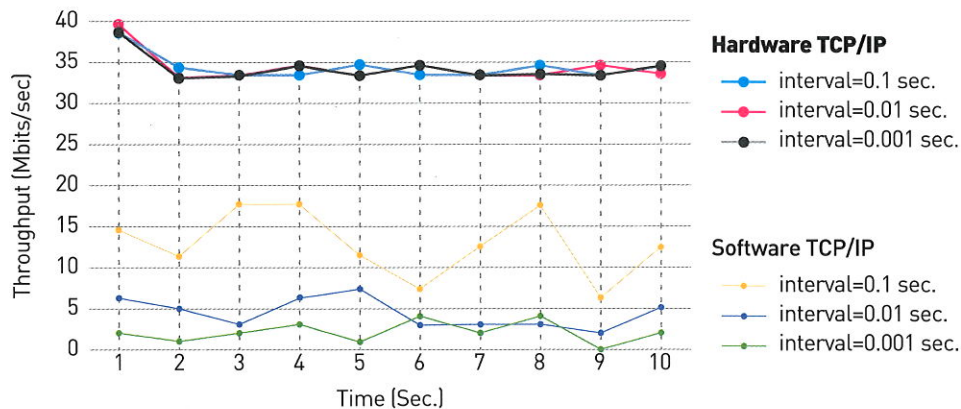


W7500

Comparison of Software & Hardware TCP/IP

	Software TCP/IP	Hardware TCP/IP
Platform	mbd 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

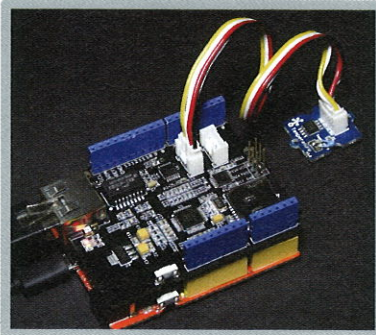
mbed-enabled / Arduino-compatible

ARM® mbed™

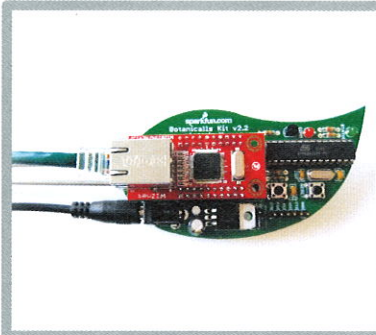


Arduino Ethernet Shield

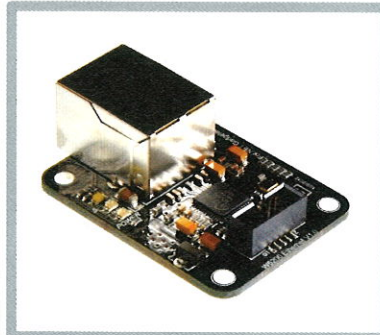
More than 50 various Ethernet Shields from VARs and Clones in OSHW community



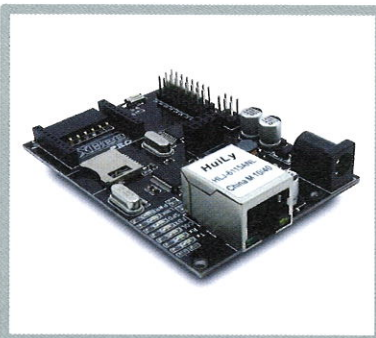
W5500 Ethernet Shield
Seeed Studio



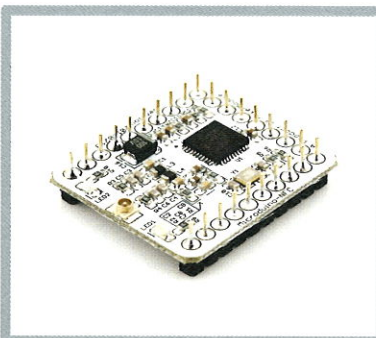
Botanicalls (W5100)
Sparkfun



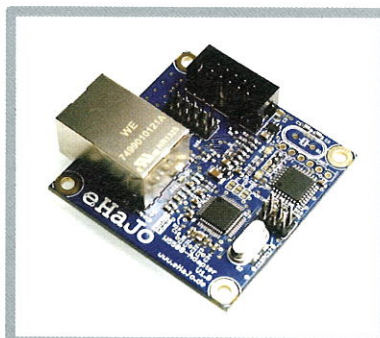
W5200 Ethernet Module
DF Robot



Iboard
ITEAD Studio



W5500 Microduino
Microduino



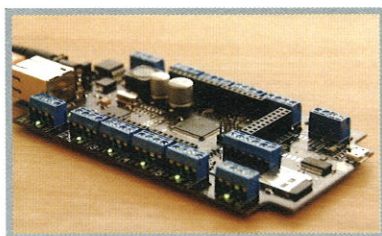
W5500 Network Adaptor
eHajo

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



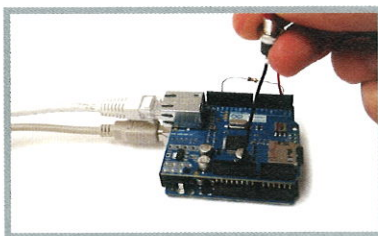
500 Prototypes & Tutorials & VAR products

WIZnetian Masterpiece



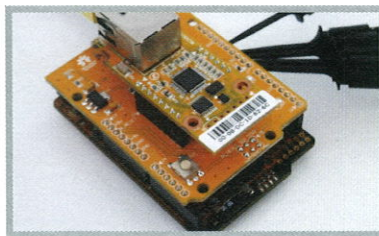
Haunt-Box

Kickstarter Crowdfunded



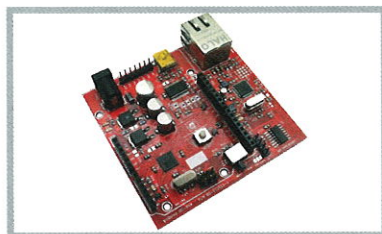
Arduino Ethernet Shield

Most Remarkable in Instrutables



W5500 & ioShield

Most Comprehensive Tutorial



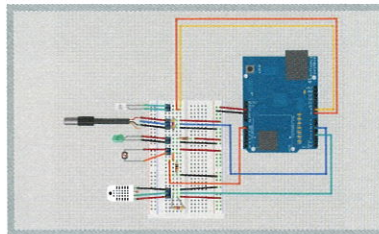
gizduino IOT-644

Best Seller VAR Products



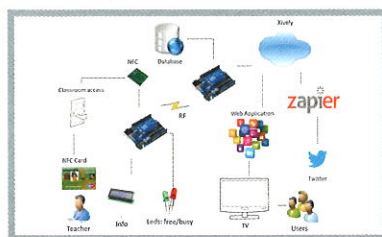
Chimaera

Design Contest First Prize



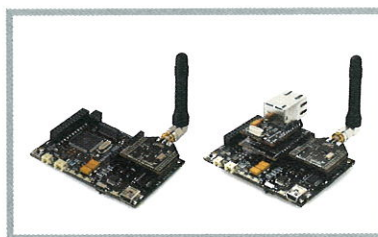
Arduino Aquaponic

WIZ Treasure #18



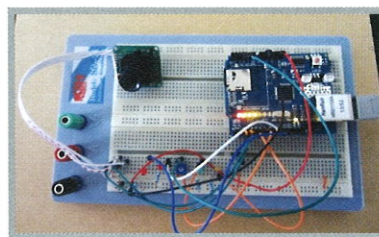
IOT & Cloud

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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