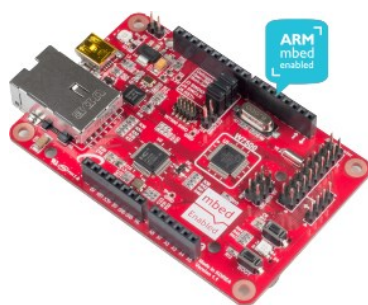


WIZwiki-W7500

W7500 based ARM® mbed Platform Board for
IoT

Product Overview



WIZnet WIZwiki-W7500 is a WIZwiki platform board based on W7500. The IOP4IoT W7500 chip is one-chip solution which integrates an ARM Cortex-M0, 128KB Flash and hardwired TCP/IP core for various embedded application platform especially internet of things. If you use WIZwiki-W7500, you will be able to easily develop a prototype. It is compatible with Arduino Shields. This is using the CMSIS-DAP USB and ISP Header easily available firmware writing.

Use Cases

Applications



Smart Home



Factory Automation



Smart Grid



Retail

Technical Specifications

Microcontroller	ARM Cortex-M0 Core - Up to 48MHz frequency 128KB Flash 48KB SRAM (include 32KB RAM for TCP/IP) - Hardwired TCP/IP Core - MII Interface
CMSIS-DAP	- LPC11U35FHI33/501, ARM Cortex-M0 Core, NXP - Drag-n-drop programming - USB Serial Port - Easy to use C/C++ SDK
External Ethernet PHY	- IC+ IP101GA - Single Port 10/100 MII/RMII/TP/Fiber Fast Ethernet Transceiver - Auto MDI/MDIX function - Supports MDC and MDIO to communicate with the MAC
Connector	- USB Mini B Type - Slim Size RJ45(with transformer) - Arduino compatible pin headers - SWD Header (1.27mm and 2.54mm) - GPIO Header - ISP Header
ETC	5V USB Power or 5V header supply 2 system SW – RESET SW, BOOT SW - RGB LED - Micro SD card slot

Comparison Table

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Item	W7500	W7500P	W7100A
System Architecture	ARM Cortex-M0	ARM Cortex-M0	8051 Compatible
Flash Memory	128KB	128KB	64KB
SRAM (include TX/RX Buffer)	48KB	48KB	64KB
TX/RX Socket Buffer	32KB	32KB	32KB
PHY integrated	X	O	O
Operation Voltage	3.3V	3.3V	3.3V
Operation Temp (°C)	0 ~ 70	-40 ~ 85	-40 ~ 85
Package (mm)	64TQFP (7x7)	64TQFP (7x7)	100LQFP (14x14) 64QFN (10x10)

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FAQ

* More FAQs will be updated soon.

Technology

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Product

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Network Module
Serial to Ethernet
Application Module
WizFi Module
OSHW

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