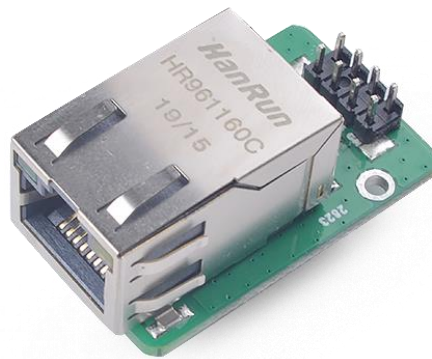


SP-ETHERNET Datasheet

v1.0



Features:

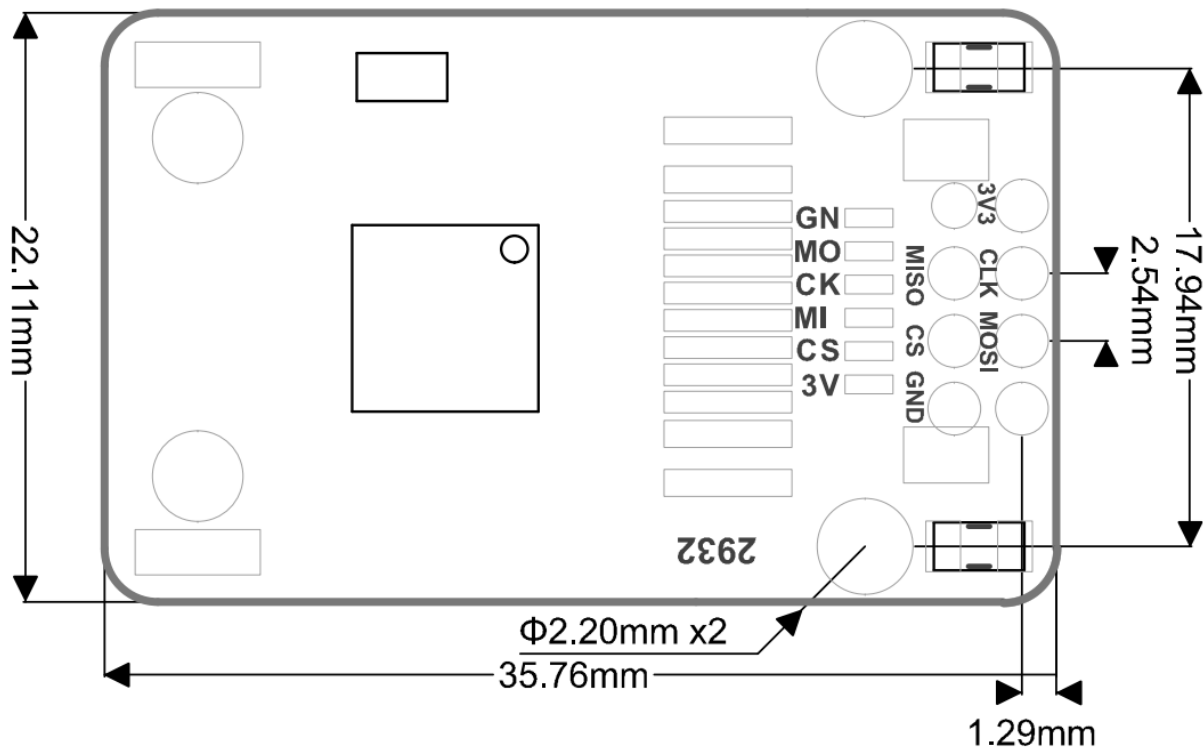
- Connect to the board through the SP-MOD SPI interface
- Master chip : The W5500 chip is a Hardwired TCP/IP embedded Ethernet controller
- The theoretical SPI design speed is 80MHz
- 10BaseT/100BaseTX Ethernet PHY embedded, Supports Auto Negotiation (Full and half duplex, 10 and 100-based)Size :35*20mm
- Connection method: SP-MOD (2*4P 2.54mm pin header)

UPDATE	
V1.0	2019/4/22; Published original document

INTRODUCTION	
Chip: W5500	Supply voltage of external power supply : 2.97V~3.63V Supply current of external power supply: <132mA Sleep Status of Current: <15mA TCP/IP protocol, Support TCP,UDP,ICMP,IPv4,ARP,IGMP,PPPoE protocols The theoretical SPI design speed is 80MHz Supports 8 independent sockets simultaneously Internal 32Kbytes Memory for TX/RX Buffers Supports Wake on LAN over UDP 10BaseT/100BaseTX Ethernet PHY embedded Support Auto Negotiation (Full and half duplex, 10 and 100-based) Not support auto-MDIX feature

HARDWARE FEATURES	
Supply voltage of external power supply	2.6V~3.6V
Supply current of external power supply	<132mA
Temperature rise	<30K
Range of working temperature	-40°C ~ 85°C

SIZE	
Length	35.76mm
Width	19.74mm
Height	15.56 mm (Excluding the height of pin header: 8.7mm)



PIN DESCRIPTION		
1	GND	Ground
2	CS	Chip Select input pin
3	SO	Master In Slave Out
4		Not connected
5	3V3	Power supply(3.3V)
6	SCK	SPI clock pin
7	SI	Master Out Slave In
8		Not connected

RESOURCES	
Official Website	www.sipeed.com
Github	https://github.com/sipeed
BBS	http://bbs.sipeed.com
Wiki	maixpy.sipeed.com
Sipeed Model Store	https://maixhub.com/
SDK Reference	dl.sipeed.com/MAIX/SDK
HDK Reference	dl.sipeed.com/MAIX/HDK
E-mail(Technical Support)	support@sipeed.com
Telgram Link	https://t.me/sipeed
QQ Group	878189804



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