

ENC28J60 SPI Ethernet Controller

Module: MD0099 / 181476

Description:

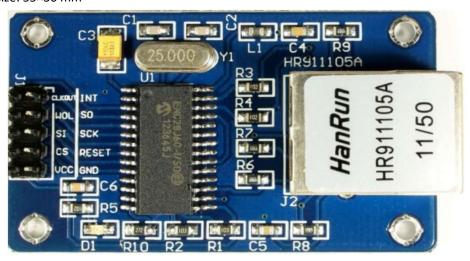
KEYESTUDIO ETHERNET ENC28J60 is a low-cost Ethernet LAN Network Module equipped with ENC28J60 integrated circuit to handle most of the network protocols requirements meeting all the IEEE 802.3 standards. ENC28J60 module has an ability to connect directly to most of the microcontrollers with a standard SPI interface. The module has 25MHZ crystal with Ethernet RJ45 Jack HR911105A and integrated LEDs. It is widely used with the small-sized embedded systems due to its simple and easy connections and low cost. The module can offer a maximum speed of 10 MBPS. It supports both full and half-duplex modes. ENC28J60 module outperforms other devices in web servers such as communication convertor and instrument, transaction terminal, IP telephone, and other Ethernet applications.

Features:

IEEE 802.3 compactable Ethernet controller
SPI interface with a maximum speed of 10MBPS
Supports full-duplex and half-duplex modes
Programmable automatic retransmit on a collision
Programmable padding and CRC generation
Programmable automatic rejection of erroneous packets

Two status LED outputs for LINK, TX, RX, collision and full/half-duplex status

PCB size: 55×36 mm



PINOUT: ENC28J60 Ethernet LAN Module connection to Arduino

PINS	ARDUINO UNO	ARDUINO MEGA
VCC	3.3V	3.3V
GND	GND	GND
СЬКоит	_	-
WOL	_	-
INT	D2	D2
S0	D12	D50
S1	D11	D51
SCK	D13	D52
CS	D10	D53
RESET	RESET	RESET



Specifications:

Operating voltage: 3.1V to 3.6V (typically 3.3V)

5V tolerant input

Six interrupt sources and one interrupt output pin

25 MHz clock input requirement

Built-in isolation transformer RJ45 connectors HR911105A

Buffer size: 8KB

Temperature range: 0°C to 70°C

Applications and uses:

A simple way and low-cost module to provide LAN connectivity to any controller with an SPI interface.

Link to the Library, one of the examples.

https://github.com/njh/EtherCard

Related Product:

https://wiki.keyestudio.com/Ks0156 keyestudio W5100 Ethernet Shield