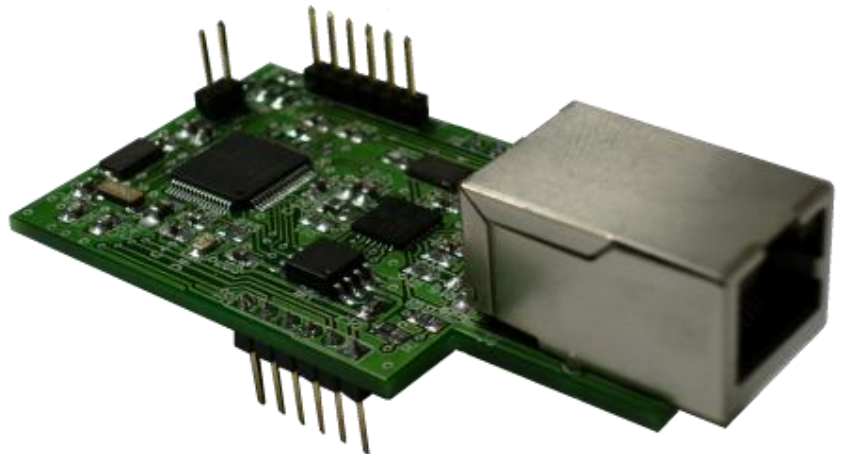


## Features

- Based on the world's smallest Ethernet Controller: Microchip's ENC28J60
- IEEE 802.3 Compliant: on-chip 10Mbps Ethernet Physical Layer Device (PHY) and Medium Access Controller (MAC) assuring reliable packet-data transmission/reception on an industry standard Ethernet Protocol
- Free Microchip TCP/IP Software Stack
- Fully compatible with 10/100/1000 Base-T Networks
- Supports Full and Half Duplex
- Programmable Automatic Retransmit on Collision
- Programmable Automatic Rejection of Erroneous Packets
- Programmable Padding and CRC generation
- Programmable Receive Packet Filtering
- 128kBytes of non-volatile memory for configuration data and web pages storing
- 2 Standard male connectors for the easy mounting of the daughter board
- UART and SPI interfaces
- 2 I/Os: link indicator and a general purpose I/O
- Status LED indicator
- Standard RJ45 plug for easy network connection
- Small footprint: 66,93mm × 36,19mm

## Socket Ethernet

The Ethernet Socket enables any board to have an Ethernet connection by simply using the socket as a daughter board. The Ethernet Socket provides the capability of remotely access embedded applications through the Internet thus removing any previous distance-related issue. The internet communication over Ethernet is guaranteed thanks to a Transmission Control Protocol/ Internet Protocol (TCP/IP) software stack freely provided by Microchip. The free TCP/IP stack includes all the major protocols necessary from the Physical Ethernet layer to (and including) the presentation or application layer.





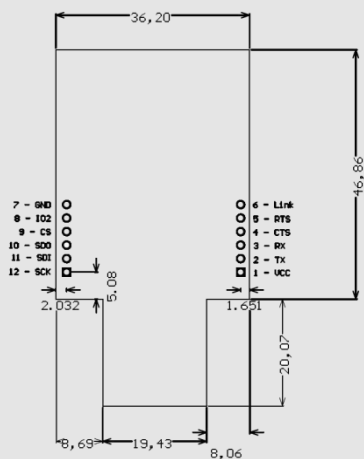
Intelligent Sensing Anywhere

Socket Ethernet

sales@isasensing.com  
www.isalabs.com



## Mechanical Outline and Pin Description



Pin	Name	I/O	Description
1	VCC	-	Positive supply
2	TX	O	Transmit Data
3	RX	I	Receive Data
4	CTS	I	Clear To Send
5	RTS	O	Request To Send
6	LINK	O	Link Status
7	GND	-	Ground reference voltage
8	IO2	I/O	General Purpose I/O
9	CS	I	Chip Select
10	SDO	O	SPI Data Output
11	SDI	I	SPI Data Input
12	SCK	O	SPI Clock

## Radio Specification

- Frequency Band: ISM Band 2.405-2.48 GHz
- Antenna: external, SMA
- Output Power: +0 dBm Typical Output Power
- Sensitivity: -91 dBm Typical Sensitivity

## Physical Specification

- Dimensions:  
L6,39mm × W2,54mm × H1,27mm  
(Including USB plug and excluding external antenna)
- Weight: < 30g

## Software Specification

- USB Driver Support for Windows 98/2000/XP/Vista

## Operating Range

- Operating Temperature: -10°C to 65°C

