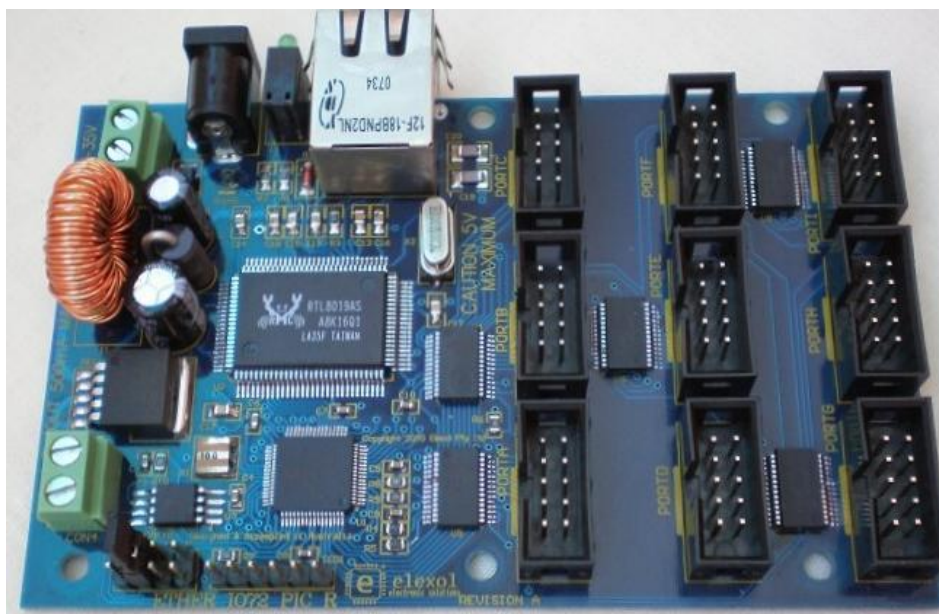


## ETHER I072 TCP

The Ether I072 TCP is an integrated, micro-controller based network interface board with 72 digital user I/O lines. The module's firmware and hardware enable your devices or other modules to be connected to a generic Ethernet network and controlled using a command sent over the network via either TCP or UDP.

Each of the 72 User I/O lines operates at 5V DC maximum levels and can be independently programmed as an Input whose state can be remotely sensed via another network device, an Input whose state is internally checked and transmitted when a change occurs, or an Output whose state can be remotely controlled by another networked device.



### Module Features

- On-board Web Interface to configure and control the board
- Supports TCP and UDP Commands, ARP, BOOTP, DHCP, ICMP, HTTP
- Industry standard 10BaseT Ethernet Interface with an industry standard RJ-45 Connector
- 72 independently programmable signal lines with programmable pull-ups per line
- Advanced configuration allows the modules to automatically scan the input ports and transmit changes directly to another ETHER I/O 72 module without host connection or to any Internet Port by router connection
- On board EEPROM allows all ports to power up in a user programmable state
- Programmable Fixed IP or Dynamic IP assignment from a DHCP server
- Small packet size and connectionless protocol allows for Real Time sensing and control
- Can be connected to a wireless network gateway or access point for wireless operation
- Easy connection to the I/O port via a 10-way box header that suits a standard IDC connector.
- 72mm Standard width for DIN Rail Modules

## General Overview

### Hardware:

- Main Controller PIC18F6622I/PT
- Network Controller  
Realtek RTL8019AS
- I/O driven from GPIO expanders controlled by main controller
- Mechanicals (112mm x 72mm) and mounting holes are the same as Ether I024 TCP with the addition of two additional mounting holes.
- All connections are located in same position as Ether I024 TCP except for additional ports

### Firmware:

- Same firmware functions as previous Ether I024 units for backwards compatibility, but with additional features for the new expanded ports.
- Firmware can be updated via programming jig

### Additional Features:

- TCP packet commands now supported
- SPI and I2C Interface on all three Ports A,B & C, all other ports are for IO Modes only
- Embedded Java Programming and Configuration Interface