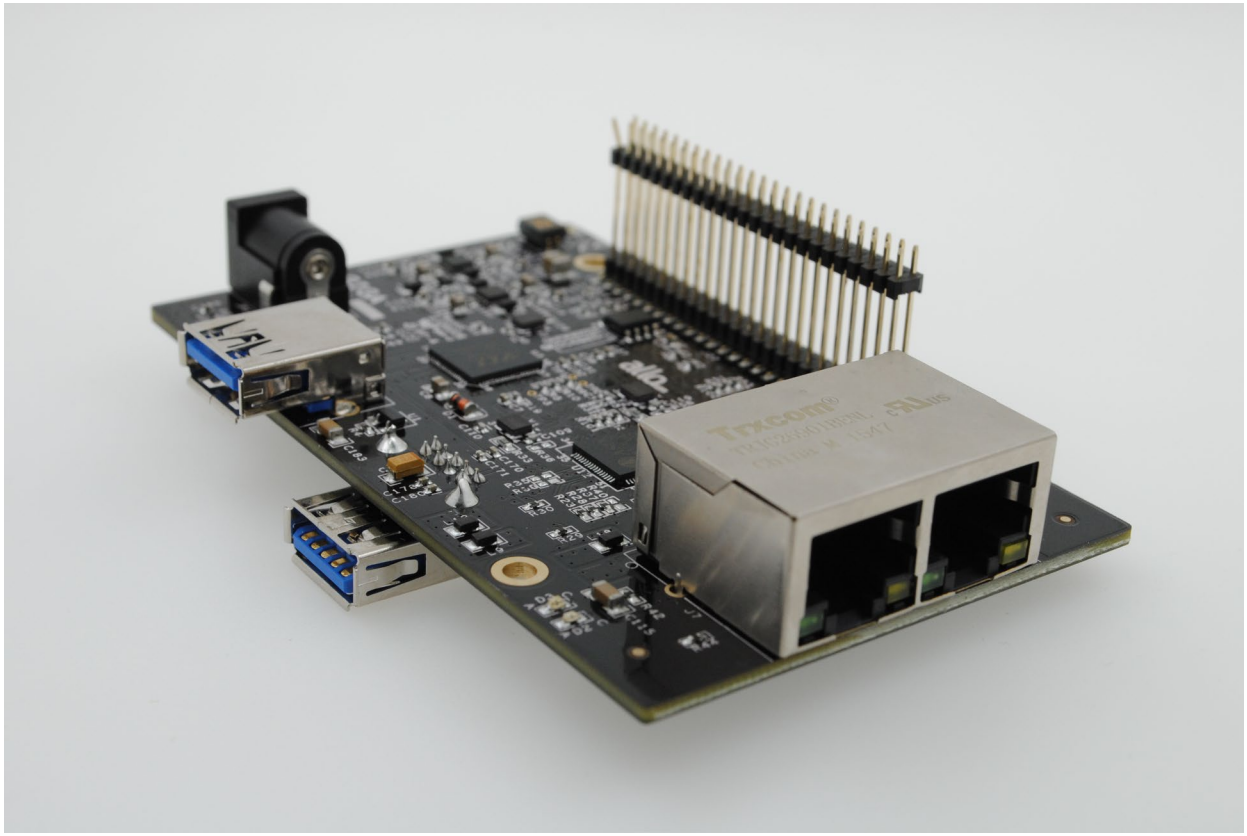
GIGA

USB 3.0 to Dual Gigabit Ethernet



USER MANUAL

1. Product Introduction

ALLO.com introduces the GIGA board standalone having future USB 3.0 to Dual Gigabit Ethernet Network Adapter bringing you Dual Gigabit Ethernet through a single USB 3.0 port additional peripherals with one USB 3.0 ports, the network speeds of up to 1Gbps and it can be connected to two separate physical networks such as any special function like networked virtual machine configuration, gateway management network management, bridging, networking troubleshooting and so on. This is the best solution for any IT administrators to interface their systems such as laptops, Ultrabook's or MacBook Airs to analyze and manage any networks. Apart from that we have option to connect Sparky board through 50 pin connector with Giga board.

2. Giga board features.

- 2 port Giga bit Ethernet through single USB 3.0 connector.
- 2 Giga bit Ethernet connectors.
- 1 USB 3.0 up port.
- 1 USB 3.0 down port.
- Up to 1Gbps (10/100/1000Mbps) speed on each Ethernet ports.
- USB 3.0 speed up to 5 Gbps.
- Independently can operate with computers or any SBC's.
- Required 5V/3A DC power supply.
- With external power option.
- Two Power source selection logic.
- 50 –pin connector for Sparky board.

- Small form factor of 95mmX58mm (Length X Width).

3. Hardware Installation

- Connect the USB 3.0 to GIGA directly into an USB 3.0 Up port on your computer/laptop, Sparky or any SBC's.
- Connect one end of your network cable into the RJ45 port of GIGA board.
- Connect the other end of the network cable into Ethernet port on your router, switch, or any other networking device.
- Connect the USB stick to down port provided (optional)

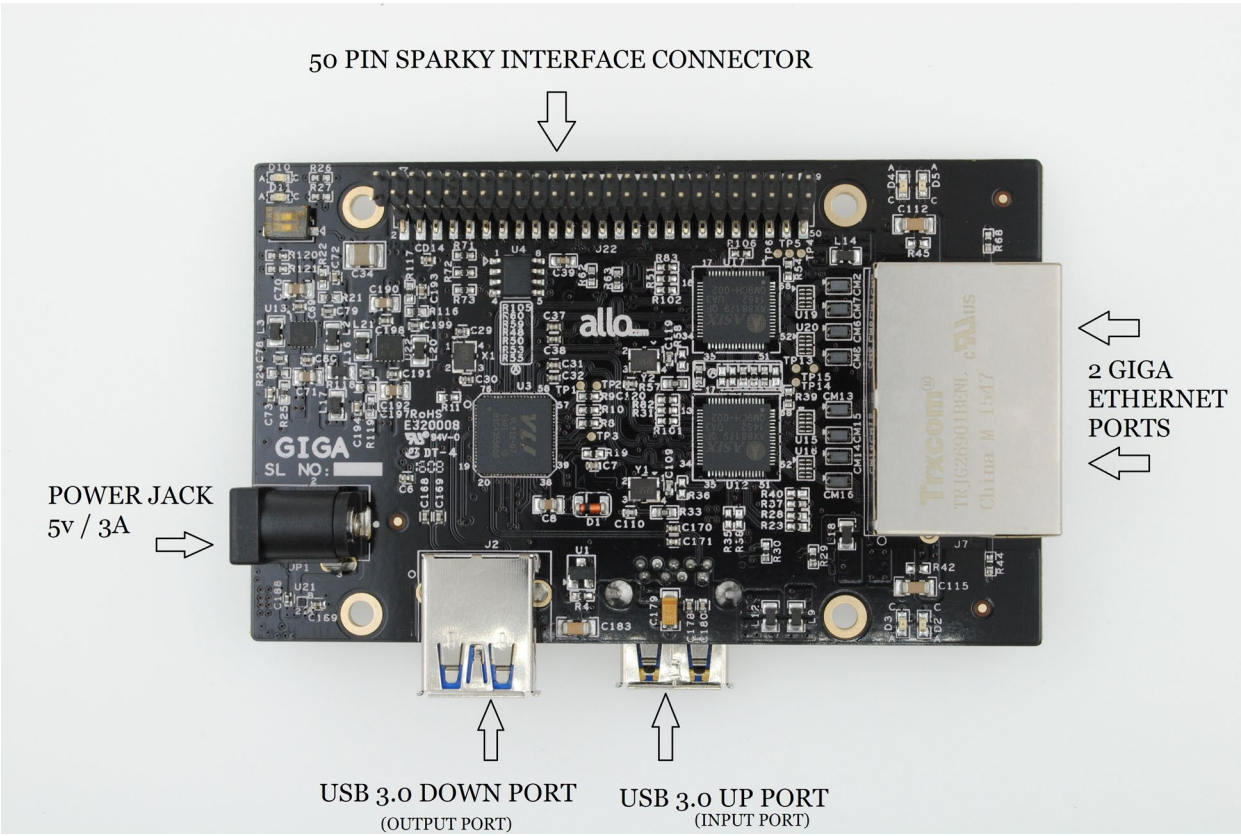


Fig 1: Giga board top view

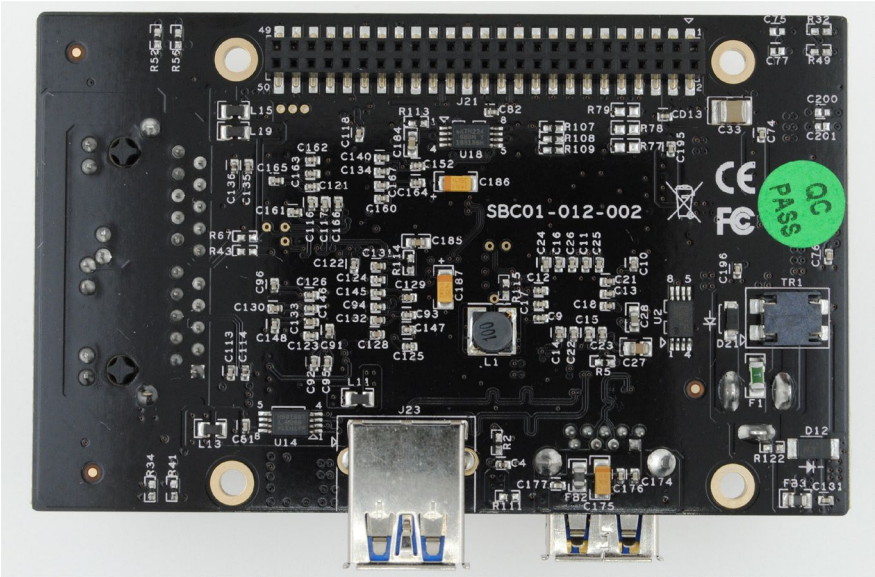


Fig 2: Giga board Bottom view

4. Application

SPARKY + Network shield can be used to run many different open source applications such as:

SHIELD (Unified Threat Manager), Ntop-NG (Traffic Monitoring/Network nalyzer), OpenWRT (Embedded router distribution), IPFire (Firewall), OpenMediaValut (AS Solutio), Squid/Nginx (Content filtering/Web load balancing Gateway), Network/Application vulnerability Scanners, 4G Routers (With USB based Add-on modules), Strongswan/Openswan (IPSec VPN), OpenVPN (SSLVPN), OpenBTS (Software based GSM Access Points)