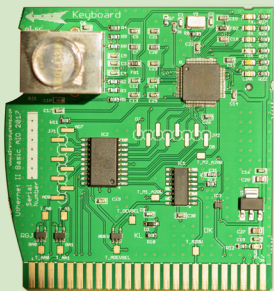# UTHERNET II — Quick Start for Apple IIGS

Thank you for purchasing *Uthernet II* from A2RetroSystems, the best Ethernet card for the Apple II! Uthernet II is a 10/100 BaseTX network interface card that features an on-board TCP/IP stack. You will find that this card is compatible with most networking applications for the IIGS. Refer to the Uthernet II Manual for complete information.
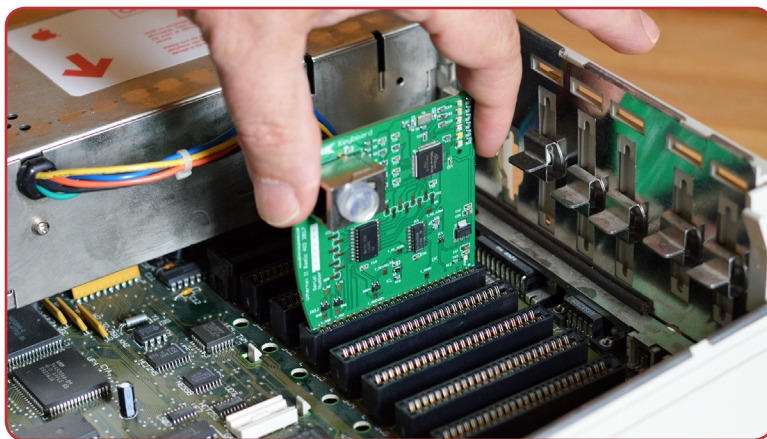
System Requirements

- Apple IIGS ROM 01 or ROM 3 with one free slot
- System 6.0.1 or better
- 2 MB of RAM or more
- Marinetti 3.0b9 or better
- Hard drive and accelerator recommended

Installation Instructions
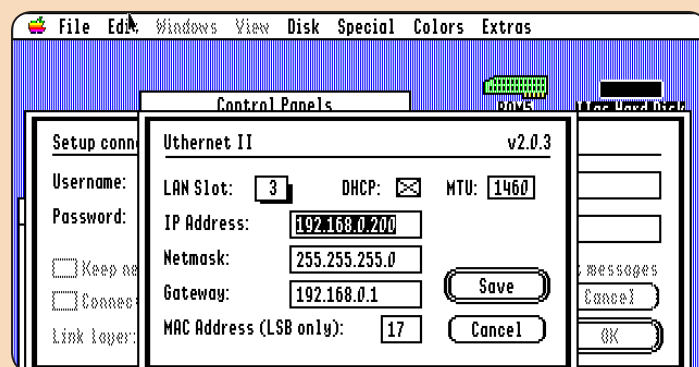
Uthernet II is typically installed in slot 3.

1. Power off, and remove the cover of your Apple IIGS.
2. Touch the power supply to discharge any static electricity.
3. If necessary, remove one of the plastic covers from the back panel of the IIGS. Turn the metal retainer counter-clockwise to release.
4. Carefully remove Uthernet II from its anti-static bag.
5. Insert the card into slot 3, as shown below.
6. The metal RJ-45 jack should face the front of the IIGS.
7. Connect an Ethernet cable to the Uthernet II, and route the cable through one of the openings in the back of the IIGS case.
8. The Ethernet cable should lead to a switch, hub, router, another computer, or some other network device.

Software

Download the Marinetti TCP/IP 3.0b9 disk image at http://a2retrosystems.com/Marinetti.htm

1. On the disk, launch Marinetti3.0B1 to install the first part of Marinetti, then copy the TCPIP file from the disk into *:System:System.Setup, replacing the older TCPIP file. Finally, copy the UthernetII file into *:System:TCPIP
2. Restart your Apple IIGS, then choose *Control Panels* from the Apple menu and open *TCP/IP*. Click *Setup connection...*
3. From the *Link layer* popup menu, choose *UthernetII*. Click *Configure...*, then set your slot number in *LAN Slot*, and click the *DHCP* checkbox to automatically configure TCP/IP. Click *Save*, then *OK*, then *Connect to network*.

Tech Support

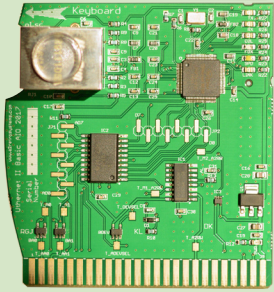First make sure you have the Uthernet II Manual from http://a2retrosystems.com/
If your problem or question is not answered there, try:

- Email: support@a2retrosystems.com
- Slack: https://apple2dev.slack.com/
- Usenet: comp.sys.apple2

Your Uthernet II is covered by a one-year warranty, and you have 90 days to return the card for any reason.

UTHERNET II
Quick Start for Apple IIe

Thank you for purchasing *Uthernet II* from A2RetroSystems, the best Ethernet card for the Apple II! Uthernet II is a 10/100 BaseTX network interface card that features an on-board TCP/IP stack. You will find that this card is compatible with most networking applications for the IIe. Refer to the Uthernet II Manual for complete information.
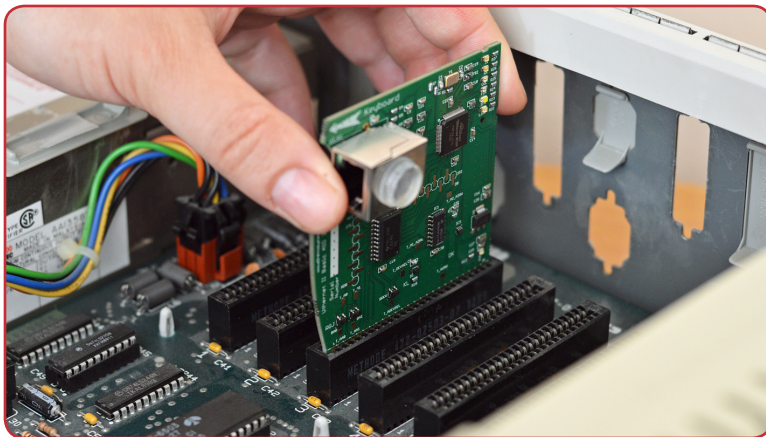
System Requirements

- Apple IIe with one free slot

Recommended:
- 128K of RAM or more
- Enhanced Apple IIe
- Hard drive and accelerator

Installation Instructions

Uthernet II is typically installed in slot 3.
1. Power off, and remove the cover of your Apple IIe
2. Touch the power supply to discharge any static electricity.
3. If necessary, remove one of the plastic covers from the back panel of the IIe.
4. Carefully remove Uthernet II from its anti-static bag.
5. Insert the card into slot 3, as shown below.
6. The metal RJ-45 jack should face the front of the IIGS.
7. Connect an Ethernet cable to the Uthernet II, and route the cable through one of the openings in the back of the IIGS case.
8. The Ethernet cable should lead to a switch, hub, router, another computer, or some other network device.

Software

Several programs, operating systems, and development systems are compatible with Uthernet II and Apple IIe.

- **A2osX** is a Unix-like operating system for Apple II, which includes a TCP/IP networking stack. https://github.com/burniouf/A2osX/

- **ADTPro** is a disk transfer utility, which can copy disks to and from the Apple II. http://adtpro.com/

- **Contiki** is a suite of Internet-enabled applications including a web browser and telnet client. http://a2retrosystems.com/Contiki.htm

- **IP65** is a TCP/IP stack which includes a telnet client, SNTP client, and wget (HTTP download) program. https://github.com/cc65/ip65/

- **Marina** is a TCP/IP stack for Apple II http://marina.a2hq.com/

- **PLASMA** is a programming language and development system for Apple II, which includes Uthernet II libraries, TFTP client, and HTTP server. https://github.com/dschmenk/PLASMA

Tech Support

First make sure you have the Uthernet II Manual from http://a2retrosystems.com/
If your problem or question is not answered there, try:

- Email: support@a2retrosystems.com
- Slack: https://apple2dev.slack.com/
- Usenet: comp.sys.apple2

Your Uthernet II is covered by a one-year warranty, and you have 90 days to return the card for any reason.