

10/6/2020

With my discontinuance of all ADE Pro, ADE Lite, and ADE Pro Shield units, I decided to offer all the information needed to create your own ADE Pro Shield. This shield is designed to connect to the Arduino Mega2560 Rev3 with appropriate external power supply. After the build, you will be required to download and install **ADE Pro** code from Sean Myers official ADE GitHub to make it function.
<https://github.com/Kalidomra/AdamNet-Drive-Emulator>

The Pro Shield is a combination of all the features from the ADE, ADE Pro, and ADE Lite all rolled into one unit and takes full advantage of all current software features. Front buttons include: DRIVE SELECT, [..]/[/] (previous and main directory), UP, DOWN, UN/MOUNT, SWAP, and RESET.

Like all ADAMnet peripherals, it will require a standard ADAMnet 'reverse' cable to connect the shield to the ADAM.

IMPORTANT - Solder the SD Card R/W Module on LAST.

ADE Pro Shield BOM

Mouser Electronics

Tactile reset switch (red) - P/N# 688-SKHHAR - QTY. 1
Tactile switch (black) - P/N# 688-SKHHAK - QTY. 6
R1 - 5.6K OHM 1/4W resistor - P/N# 603-CFR-25JR-525K6 - QTY. 1
R2 - 1K OHM 1/4W resistor - P/N# 603-CFR-25JR-521K - QTY. 1
R3 - 33 OHM 1/4W resistor - P/N# 603-CFR-25JR-5233R - QTY. 1
R4 - 100 OHM 1/4W resistor - P/N# 603-CFR-25JR-52100R - QTY. 1
R5 - 10K OHM trimmer resistor - P/N# 81-PV36W103C01B00 - QTY. 1
LED - Blue (Activity) - P/N# 593-VAOL-3LSBY2 - QTY. 1
Q1 - 2N3906 - P/N# 512-2N3906BU - QTY. 1
X1 - Cat 3 female con (ADAMnet) - P/N# 649-54601-906WPLF - QTY. 1

Marlin P. Jones & Assoc. Inc. or Amazon

LCD - 2x16 LCD - P/N# 30455 OP - QTY. 1 or www.amazon.com/gp/product/B019D9TYMI
SD Card R/W Module - P/N# 31491 MP - Qty. 1 or www.amazon.com/gp/product/B01G8BQV7A
80 Pin (2X40) Header Connector - 30130 HC - QTY.1
40 Pin (40 X 1) Header Connector - 30100 HC - QTY. 2

Amazon

Arduino MEGA2560 Rev 3 - www.amazon.com/gp/product/B01H4ZDYCE
Arduino power supply - www.amazon.com/gp/product/B07PDBRVFB
Heavy-Duty Mounting Tape for SD Card R/W Module (see picture) - www.amazon.com/Heavy-Duty-Exterior-Mounting-Tape-Holds/dp/B00004Z4BV

Other

3ft ADAMnet Reverse Cable - www.showmecables.com/rj12-line-cord-6-conductor-reverse

Enjoy!
John Lundy