Arduino Klonu A-Star 328PB Micro 3.3V 8MHz - Pololu 3162

Documentation and other information

Pololu A-Star 328PB User's Guide (**Printable PDF**)

User's manual for the Pololu A-Star 328PB.

File downloads

ATmega328PB datasheet (4MB pdf)
Atmel Application Note AT15007: Differences between ATmega328/P and ATmega328PB (283k pdf)

Application note describing differences between ATmega328 variants and the ATmega328PB.

Pinout diagram of the A-Star 328PB Micro (579k pdf)
Schematic diagram of the A-Star 328PB Micro (132k pdf)
Dimension diagram of the A-Star 328PB Micro (199k pdf)
3D model of the A-Star 328PB Micro (5MB step)
Drill guide for the A-Star 328PB Micro (50k dxf)

This DXF drawing shows the locations of all of the board's holes.

Recommended links

Arduino Software

Arduino integrated development environment (IDE) software

ATmega328PB documentation

Microchip's product page for the ATmega328PB AVR microcontroller, with links to its most up-to-date datasheet, application notes, and other resources.

A-Star repository on GitHub

This repository contains Arduino add-on files, Windows drivers, and bootloaders for the A-Star 328PB, A-Star 32U4, and the rest of our 32U4 family of boards.

AVR Libc Home Page

The web site for AVR Libc, which is the standard library of functions that you can use with C and C++ on the AVR.

Pololu A-Star and Orangutan Forum Section

The A-Star and Orangutan discussion section of the Pololu Robotics Forum.

AVRDUDE

AVRDUDE is a cross-platform command-line utility for programming the flash memory on AVR microcontrollers.

AVR Freaks

AVR community with forums, projects, and AVR news.

Atmel Studio 7

Free integrated development environment (IDE) for AVRs.

WinAVR

A free, open-source suite of development tools for the AVR family of microcontrollers, including the GNU GCC compiler for C/C++.

LPS Arduino library

This is a library for the Arduino that interfaces with our LPS25H and LPS331AP pressure/altitude sensor carriers as well as the pressure sensor on the AltIMU-10 v3 (it also works with the original AltIMU-10). It makes it simple to read the raw pressure data from the sensor, and it provides functions to help calculate altitude based on the measured pressure.

Arduino library for addressable RGB LED strips from Pololu

This library allows you to control an arbitrary number of SK6812/WS281x-Based Addressable RGB LEDs from an Arduino.

LSM303 Arduino library

This is a library for the Arduino that interfaces with our LSM303D, LSM303DLHC, and LSM303DLM 3D compass and accelerometer carriers as well as the compass and accelerometer ICs on the MinIMU-9 v3and AltIMU-10 v3 (it also works with older

versions of those boards, some of which used the LSM303DLH and LSM303DLHC). It makes it simple to configure the device and read the raw accelerometer and magnetometer data, and it has a function for computing the tilt-compensated heading for those looking to use the LSM303 as a tilt-compensated compass.

L3G Arduino library

This is a library for the Arduino that interfaces with our L3GD20H and L3GD20 3-axis gyro carriers as well as the gyros on the MinIMU-9 v3 and AltIMU-10 v3 (it also works with older versions of those boards, some of which used the L3G4200D and the L3GD20). It makes it simple to configure the device and read the raw gyro data.

Arduino Library for the Pololu QTR Reflectance Sensors

This guide explains how to use the QTRSensors library to read Pololu QTR reflectance sensors and QTR sensor arrays with Arduinos and Arduino-compatible devices like the Pololu Orangutan robot controllers.