Pololu A-Star 32U4 Comparison guide

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|  | **[https://a.pololu-files.com/picture/0J5274.55.jpg?0f813f12c1654c9a2aaafec3b28b4ebe](https://www.pololu.com/product/3101)** | **[https://a.pololu-files.com/picture/0J5603.60.jpg?43c1294b06891b860cc82068f8514779](https://www.pololu.com/product/3102) [https://a.pololu-files.com/picture/0J5604.60.jpg?f4ad92def8ea53c2fee7d6b50fede2cc](https://www.pololu.com/product/3103) [https://a.pololu-files.com/picture/0J5605.60.jpg?9965717746633b38e952564fef76b7e6](https://www.pololu.com/product/3104)** | **[https://a.pololu-files.com/picture/0J6063.70.jpg?04511813d04e9501ff8dbb178c0876c9](https://www.pololu.com/product/3108)  [https://a.pololu-files.com/picture/0J6128.70.jpg?f76de71a0397a7ef1a6b43ea2874bd0b](https://www.pololu.com/product/3114)** | **[https://a.pololu-files.com/picture/0J6663.70.jpg?a4723ea46f9c60c4f868e4606bddcbe8](https://www.pololu.com/product/3116)  [https://a.pololu-files.com/picture/0J7079.70.jpg?38745f5f10394e97d0d7a52cb0493721](https://www.pololu.com/product/3118)** |
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| [**A-Star 32U4 Micro**](https://www.pololu.com/product/3101) | [**A-Star 32U4 Mini ULV**](https://www.pololu.com/product/3102)[**A-Star 32U4 Mini LV**](https://www.pololu.com/product/3103)[**A-Star 32U4 Mini SV**](https://www.pololu.com/product/3104) | [**A-Star 32U4 Prime LV**](https://www.pololu.com/product/3108)[**A-Star 32U4 Prime SV**](https://www.pololu.com/product/3114) | [**A-Star 32U4 Robot Controller LV**](https://www.pololu.com/product/3116)[**A-Star 32U4 Robot Controller SV**](https://www.pololu.com/product/3118) |
| **Microcontroller:** | ATmega32U4 | ATmega32U4 | ATmega32U4 | ATmega32U4 |
| **User I/O lines:** | 18 | 26 | 26**(1)** | 26**(1)** |
| **PWM outputs:** | 7 | 7 | 7 | 7**(1)** |
| **Analog inputs:** | 8 | 12 | 12 | 12**(1)** |
| **Ground access points:** | 2 | 4 | 43 | 44 |
| **User LEDs:** | 2 | 3 | 3 | 3 |
| **User pushbuttons:** | — | — | 3 | 3 |
| **Reset button:** |  | yes | yes | yes |
| **Power switch:** |  |  | yes | yes |
| **Buzzer option:** |  |  | yes | yes |
| **microSD option:** |  |  | yes |  |
| **LCD option:** |  |  | yes |  |
| **Motor drivers:** |  |  |  | yes |
| **Operating voltage:** | 5.5 V to 15 V | **ULV:** 0.5 V to 5.5 V **LV:** 2.7 V to 11.8 V **SV:** 5 V to 36 V | **LV:** 2.7 V to 11.8 V **SV:** 5 V to 36 V | **LV:** 2.7 V to 11 V **SV:** 5.5 V to 36 V |
| **Regulator type:** | linear | switching  **ULV:** step-up **LV:** step-up/step-down **SV:** step-down | switching  **LV:** step-up/step-down **SV:** step-down | switching  **LV:** step-up/step-down **SV:** step-down |
| **Regulated current:(2)** | 100 mA | **ULV:** 500 mA **LV:** 1 A **SV:** 500 mA | 1 A | **LV:** 1 A **SV:** 1.5 A |
| **Dimensions:** | 1″ × 0.6″ | 1.9″ × 0.7″ | 2.8″ × 2.1″ | 2.6″ × 2.2″ |
| **Weight:** | 1.3 g**(3)** | 3.4 g**(3)** | 13 g to 33 g | 14 g to 23 g |