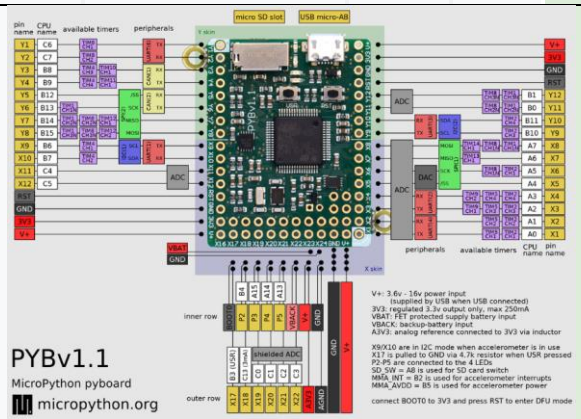
Prism IBA01

Features[1]	
Embedded MicroPython Board • STM32F405 • (12bit)ADCs, DAC, GPIOs, UARTs PWMs, Timers, I2C, SPI • MicroSD Slot • Note some resources used by the IBA01, see schematic	
Two Programmable DC Supplies	V1 (TPS7A2501) • 1650-4500mV, 50mV Steps, 500mA Maximum[2] • Current measurement, ±100µA, 100mA Max V2 (TPS7A7200) • 500-3500mV, 50mV Steps, 500mA Maximum[2] • Current measurement, ±100µA, 100mA Max
Programable Battery Emulator	VBAT (LT1118) • Source and Sink Current to 800mA Maximum[2] • 1650-4500mV, 50mV Steps • Current measurement, ±1mA, 500mA Max
USB Embedded HUB	Two free USB (2.1) ports
USB Virtual Serial Port	One VSP based on Silicon Labs CP2102
16Bit ADC	Two inputs, based on ADS1115
Two non-programmable Supplies	• 9V, 500mA Maximum[2] • 5V (VSYS) (Supplied externally thru USB-C)
DUT Supply Connect Relays	Relays control when V1, V2, VSYS, 9V, VBAT are connected to DUT
LoRa Module	RF Solutions RFM95W
Arduino Nano Slot	For WiFi/Bluetooth Connectivity
Digital Resistor	Based on TPL0102
Buffer Amplifier	Based on LTC6090
Level Translator	Based on TXS0104

The IBA01 PCB provides a prototype for all the above functions. The PCB can be forked and modified to suit specific DUT needs. All functions are available through simple Python class[3] available in the Prism Framework.

[1] Subject to change without notice.
[2] Depends on external power supply and other IBA01 supplies.
[3] Some functions are in development, or will be developed based on request.

Rev01