

BL-219 Datasheet



BL-219 Product Specifications:

The Bug Labs Professional Bundle includes all of our most popular modules along with the newly re-designed Bug Base. The BUG 2.0 is powered by a High-performance, low-power Texas Instruments OMAP3530 processor with ARM Cortex A-8 running at 600 MHz Capacity. A 2GB System MicroSD is included (expandable up to 2 x 32GB using User SD slot)

The base also includes:

- 802.11b Wi-Fi (supports mesh, AP, ad-hoc, managed modes)
- Bluetooth 2.0 + EDR wireless technology
- 3.5mm stereo out headphone
- Mini-USB port can be used in Host or OTG mode
- 30-pin BUGstinger connector (USB host, ethernet, serial port replicator)
- 2 MicroSD slots; one each for system and user
- 1 dedicated slot for display-related BUGmodules (BUGview, BUGvideo)
- 3 available slots for BUGmodules (includes I2C, I2S, SPI, UART and JTAG/ICE support)
- 4 status LEDs (i.e. WiFi, Bluetooth, battery & logo)
- On/Off button
- User programmable button
- Multiple power management (both system-level and user-programmable) options
- Charging via power adapter
- Built-in rechargeable 3.7V, 1500 mAh lithium-ion battery

Also included in the Professional Bundle are the following modules:

BUGview

- a 2.5-inch (diagonal) non-glare, color LCD touchscreen with LED backlight
- 320-by-240 pixel resolution at 163 pixels-per-inch
- 150:1 contrast ratio (typical)
- 460 cd/m² brightness (typical)
- Programmable auto-orientation

BUGvideo

- HD video playback (720p) up to 30 frames per second
- VGA connector
- HDMI connector (uses DVI format)

BUGstinger

- BUG's version of a developer's docking station.
- A port replicator that offers 10/100BASE-T Ethernet, a full-size female USB port and Mini-USB (for serial over USB to your computer).
- Used primarily to step-through and debug application code, but is also handy for connecting to peripherals.

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BUGlocate

- a GPS receiver for BUG, great for tracking or mapping.
- Includes both an internal passive antenna and a connector for an external active antenna (external Antenna included).

BUGcam2

- The new and improved camera module built specifically for the 2.0 Bug Base.
- Uses an MT9T111 - 1/4 inch, 3.1Mp system-on-a-chip CMOS Digital Image Sensor.
- Flash included for low light needs

BUGvonHippel

- named after Dr. Eric von Hippel of MIT, this breakout module expands BUG connectivity with multiple interfaces.
- USB, I2C, I2S, Serial, SPI, 4 GPIO, 6 IOX, ADC, DAC, Power

BUGusb

- a USB 2.0 port plus unique packaging to accommodate 3rd-party USB dongles and keyfobs.
- Prototype new device capabilities with your BUG as soon as they're released!

For more information about the hardware and technical details, please visit: <http://wiki.buglabs.net/index.php/Hardware>

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