

Sentera's small, lightweight CommsBoard is ideal for a multitude of unmanned aerial vehicle (UAV) platforms, designed to seamlessly integrate with a variety of autopilot configurations.

SENTERA COMMSBOARD



Sentera CommsBox Data Link



Sentera CommsBoard with Microhard IPnDDL Radio

Sentera's CommsBoard is a highly capable, small, light-weight, multi-function, communications and I/O host controller for small unmanned aerial vehicles (UAV) and network enabled systems. The CommsBoard can be used to control data links, manage serial, Ethernet and CAN bus traffic, control sensors and devices, and many other systems management functions.

FEATURES & BENEFITS

- Web-enabled user interfaces
- Managed Ethernet switch on board
- Ublox GPS native compatible
- Smart battery compatible
- Temperature-triggered, external fan control
- Two independent LED strobe/on/off drivers for external lighting, visible and infrared
- Multiple configurable switched power outputs
- CAN bus management
- Updateable via bootloader
- WiFi access-point compatible
- External air-data compatible
- External temp sensor
- Battery voltage monitor (3.6-36V)
- Microhard serial and IP radio compatible (optionally mounted on board)
- Ethernet-to-Serial bridging and monitoring

SENTERA COMMSBOARD

APPLICATIONS



Sentera Phoenix

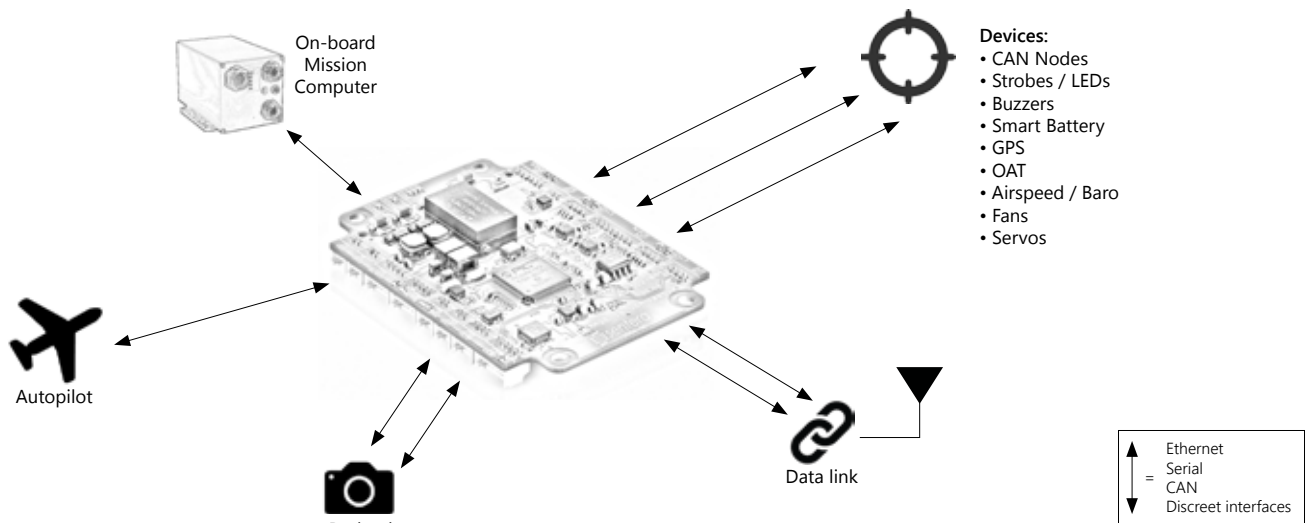


Lockheed Martin Indigo



DJI Phantom 3 Professional

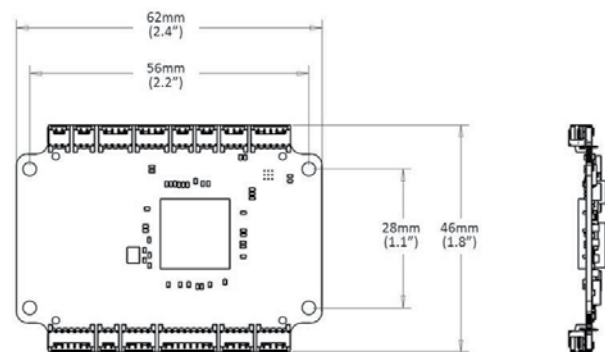
TYPICAL COMMSBOARD INSTALLATION



SPECIFICATIONS

| | |
|------------------------------|---|
| Size | 4.6mm x 6.1mm x 0.8mm (1.8" x 2.4" x 0.3") |
| Weight | 14 grams |
| Power | 1.2 watts without power pass-thru |
| Power input | Vbatt 3.6v-36v |
| Power outputs (configurable) | Switched/Pass-thru 3.3v (up to 1A) Switched/Pass-thru Vbatt |
| Interfaces (configurable) | - 4x Ethernet 10/100 Mbps (switched) - 1x CAN 2.0b - 4x UART, 1xI2C standard (configurable up to 5 I2C and 2x SPI) - 2x Discrete GPIO standard (configurable up to 8 GPIO standard, eg: up to 8PWM/PPM servo out) - External thermocouple - 2x LED current drivers |
| Compatible autopilots | - Lockheed Martin Kestrel™ autopilot - PixHawk™ autopilot - UTC Aerospace Systems Cloud Cap Technology's Piccolo™ autopilot - University of Minnesota Goldy autopilot |
| Compatible data links | - Microhard Nano Series - 3DR - Ubiquiti |

DIMENSIONS



Contact us and let's do something amazing!

Sentera, LLC
6636 Cedar Ave South, Ste 250
Minneapolis, MN 55423

+1 (844) SENTERA (844.736.8372)
+1 (888) 511.1029 fax
+1 (612) 204.2000 direct

www.sentera.com
info@sentera.com