Ethernet Multicomm OEM Board

Payload Development Board

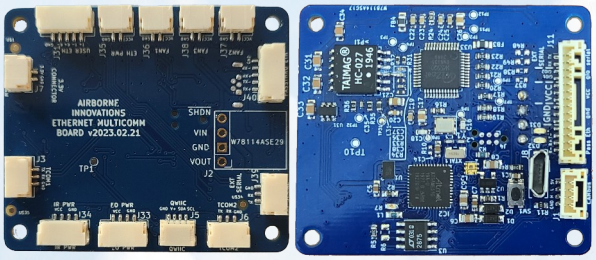
- General purpose payload control/communications board
- Designed as gimbal camera pod interface but has many flexible uses
- Control payloads over ethernet/serial/CAN/I2C/GPIO
- Arduino IDE

FEATURES

Our Ethernet Multicomm Board is an easy to use tool for payload development. Featuring an onboard user-accessible processor capable of ethernet / serial / CAN bus communications, single externally accessible connector, it allows you to develop payloads that can be controlled over ethernet, serial, and CAN.

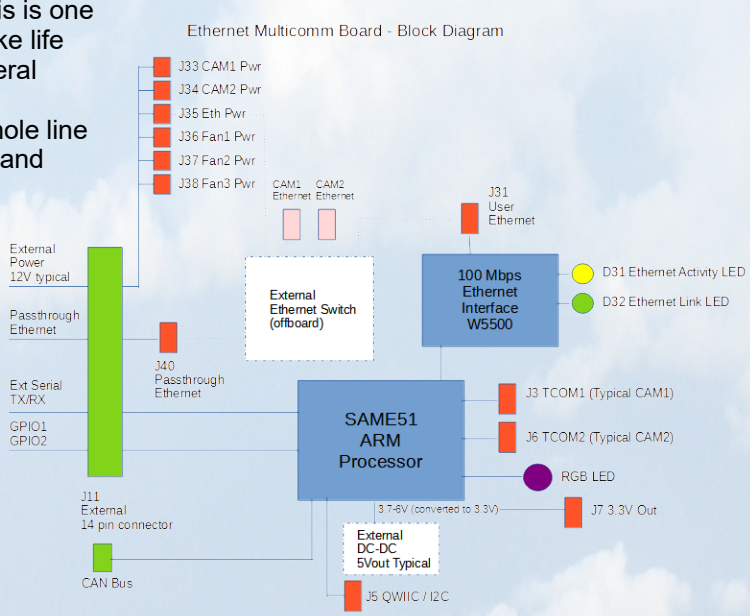
The board includes robust connectors, and all the ports needed for payload development. An easy to use support package integrates with the Arduino IDE to get you developing quickly. The powerful ARM SAME51 processor has ample horsepower and storage for communications and payload control problems. A wide input power supply allows connection to a variety of battery options. This is one of our goto payload development boards we created to make life easier for ourselves and we are happy to share it as a general purpose solution.
It also integrates well with external devices (such as the whole line of Sparkfun QWIIC / Adafruit STEMMA I2C based sensors and control devices with plug and play connectors.

Ethernet Multicomm Board



Dimensions: 51x43mm

Ethernet Multicomm Board - Block Diagram



APPLICATIONS

· Gimbal pod interface, power and camera control
· Gimbal controller (comms, sensors, cameras, motors)
· Hub for interface to ethernet based video encoders
· Advanced communications processor
· Payload communications and control
· Payload Monitoring systems
· Ethernet, Serial, CAN, or SBUS payload control
· Satcom comms hub
· Multi-link redundant communications controller

INTERFACES

· Wide range power input: 5-36V
· SAME51 processor with Arduino IDE BSP support
· 14 pin main interface connector with power, ethernet, serial, GPIO
· CAN bus external connector
· Processor and external ethernet interface
· Interfaces with optional external ethernet switch to multiplex multple external video encoders
· GPIO + 3 external serial ports
· QWIIC / I2C interface
· Payload power and fan power distribution
· Status LEDs (Power, RGB, ethernet activity & link)

NDAA Compliant

INFO

· Product page, manual, pricing, and ordering

Airborne Innovations

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