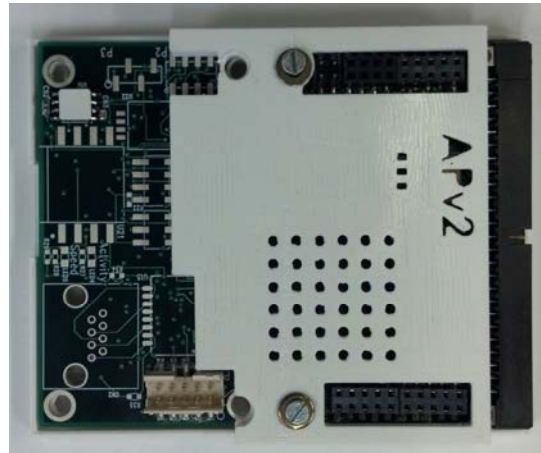




**Product # FARCO-2ARM-12-1X**  
**(X corresponds to one or more options to be included)**



**Auto-pilot shown with the plastic housing.**

**A REAL-TIME EMBEDDED MICROCONTROLLER BOARD**

- Two ARM based 32bit RISC microcontrollers for real-time signal processing and control
- A large number of free I/O ports (9 serial ports – RS232 or TTL, 3 CAN bus, I2C, 8 GPIO, Ethernet). There is a possibility of an SPI as well as an additional USB port.
- Sixteen PWM outputs
- Sixteen 12-bit A/D channels
- Four 12-bit D/A channels
- 3 MB program Flash on processor; 256KB SRAM
- Two optical encoder inputs
- A host of sensors as well as wireless modem and storage as in Options 1, 2, and 3.
- Input voltage range: 7-36 v (with a battery monitor and current sensing on board)
- Power consumption (without wireless modem): 110 mA @10V (@idle)
- Size: 2.4 x 3 x 0.63 inches with IMU and wireless modem (2.4 x 3 x 0.47 without wireless modem)
- Weight: 1.9 oz with all sensors and wireless modem (1.27 oz without wireless modem)

**Options for auto-pilot:**

- Option 1: Installed six axis accelerometers; three axis gyro; three axis magnetometers; humidity sensor; temperature sensor; two barometric pressure sensors; with associated interface software library. Subsets of these supported sensors can be installed as desired.
- Option 2: Installed MaxStream wireless modem with associated interface software library
- Option 3: A micro SD card (up to 32GB)
- Option 4: Interface software library for communicating with a GPS unit
- Option 5: A mounting/protection package (housing).