## M<sup>2</sup>C (Micro Military Computer)

### SWaP (Small Weight and Power) Computer for Military & Airborne Application

- Miniature computer
- Small Weight and Small Power consumption
- MIL-STD-801G Compliant
- Designed to support civil certified applications
- Real-Time I/O processing
- Cyber Protection Provisions (no use of standard Operating System)
- Optional power control and power monitor function
- Best fit for UAVs (UAV Flight Control and Power Distribution)

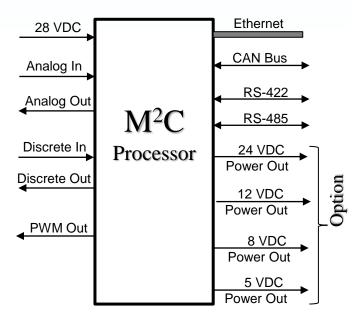
Astronautics' M<sup>2</sup>C processor was specially designed for airborne and military I/O processing in a very-small, micro enclosure, that is MIL-STD-810 qualified, and civil certification ready solution.

The M<sup>2</sup>C processor is running on a bare metal hardware, without any standard operating system. It fits secured operation requirements, and the bare-metal software application allows the M<sup>2</sup>C to be robust and better protected against cyber penetrations.

The M<sup>2</sup>C processor also provides optional power control and power monitor for several inputs, and different DC power levels (24VDC, 12VDC, 8VDC, 5VDC). Up to 500 Watts power output is supported.

#### Astronautics' M<sup>2</sup>C features include :

- Wide variety of I/O interfaces (Communication channels, analog, discretes etc.)
- Voltage & current monitoring
- Supports Ethernet, & CAN Bus communication channels
- Power distribution; Power Output
- Power output current limit (eFUSE circuit), with retry possible after 100 ms
- Build In Test (BIT)



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# M<sup>2</sup>C (Micro Military Computer)

## SWaP solution \* UAV Total Solution (Flight-Control & Power Distribution)

STM32H753XIH6
Ethernet (10/100), CAN-Bus, RS-422, RS-485
0-90 VDC (1), 0-5VDC (3)
10 (GND/Open)
1
4 (GND/Open)
1 (Engine control or other use
24 VDC; 12 VDC; 8 VDC ; 5 VDC
28 VDC, 10 Watts (separate external power and Battery power); up to 500 Watt if all power control outputs are in use
119 mm (W) x 67 mm (H) x 115 mm (D) ; Installation via 4 self-locking Heli coils
Five (5) Connectors : D-Sub 15P; D-Sub 15S; D-Sub 44S; D-Sub 62P; D-Sub 44P
670 gram
MIL-STD-810G for Vibration, shock, humidity, salt/fog, solar radiation, dust etc.
Operating: -20°C to +55°C
MIL-STD-461E
23,400 Hours MTBF (Per MIL-HDBK-217 @ 40°C

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