



Micro Military Computer



MINIATURE COMPUTER FOR MILITARY AND AIRBORNE APPLICATIONS

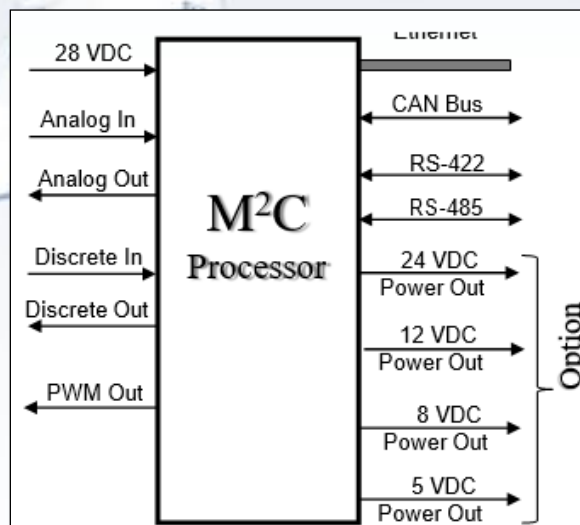
- **Miniature computer - 550-650g Weight and Low Power consumption**
- **Both MIL-STD-801G Qualified and Civil Aviation Certifiable.**
- **Real-Time I/O processing**
- **Cyber Protection Provisions (non standard Operating System)**
- **Optional power control and power monitor function**
- **Best fit for UAVs Mission, Flight Control, Sensors & Power Distribution.**



Astronautics' M2C 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 M2C 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 M2C to be robust and better protected against cyber penetrations.

The M2C 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' M2C features include:

- **Wide variety of I/O interfaces (Communication channels, analog, discretes, PWM).**
- **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)**

FOR MORE INFORMATION ON THIS OR ANY OF OUR OTHER PRODUCTS/SYSTEMS PLEASE CONTACT:
 ASTRONAUTICS C.A LTD., 16TH MARTIN GHIEL ST., PETAH-TIKVA 4951207, ISRAEL
 Phone: +972-3-9251555, Fax: +972-3-9251550, email: astro@astro.co.il or visit our website: www.astronautics.co.il



M²C Micro Military Computer

UAV Solution – Mission, Flight-Control, Sensors & Power Distribution Computer



CHARACTERISTICS

CPU	STM32H753XIH6
Interface Channels	Ethernet (10/100), CAN-Bus, RS-422, RS-485
Analog Input Interface	0-90 VDC (1), 0-5VDC (3)
Discrete Input Interface	10 (GND/Open)
Analog Output Interface	1
Discrete Output Interface	4 (GND/Open)
PWM Output	1 (Engine control or other use)
Power Out Interface	24 VDC; 12 VDC; 8 VDC ; 5 VDC
Power	28 VDC, 10 Watts (separate external power and Battery power); up to 500 Watt if all power control outputs are in use
Physical Dimensions	119 mm (W) x 67 mm (H) x 115 mm (D) ; Installation via 4 self-locking Heli coils
Connectors	Five (5) Connectors : D-Sub 15P; D-Sub 15S; D-Sub 44S; D-Sub 62P; D-Sub 44P
Weight	550 – 670 gram
Environment	MIL-STD-810G for Vibration, shock, humidity, salt/fog, solar radiation, dust etc.
Temperature	Operating: -20°C to +55°C
EMC	MIL-STD-461E
Reliability	23,400 Hours MTBF (Per MIL-HDBK-217 @40°C)



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