



# OBN-500 On-Board Networked Controller

The OBN-500 series On-Board Networked Controller is designed for mission critical and high performance applications in LEO satellite missions. Designed as a highly compact, pluggable module, the OBN provides subsystem and modules with an intelligent networked controller for telecommand control and telemetry collection.

The OBN is also designed with hot redundancy, enabling a failed controller to switchover automatically. Latch up protection is also built into the module to protect the controller against radiation latch-up.

## Key Features

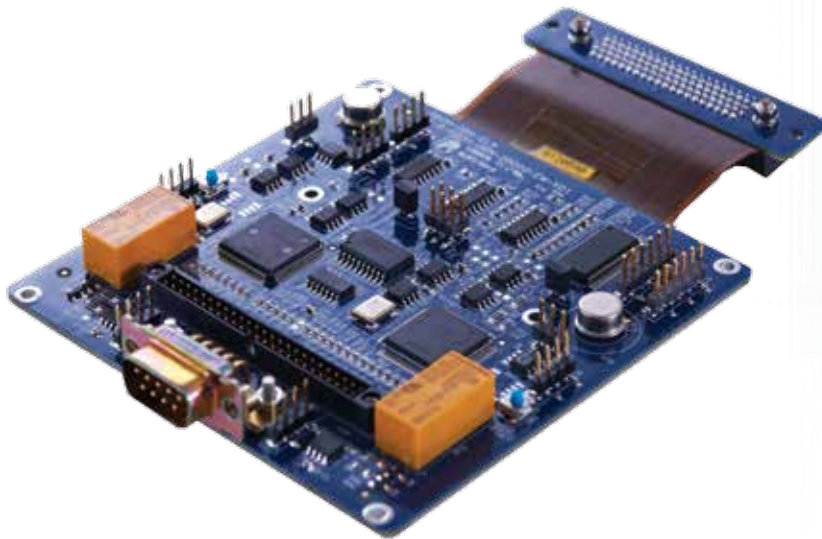
- Dual hot redundant controller board
- Compact, light weight form factor for integration into module boards
- Provides analogue, digital bi-level, SPI and mux control lines
- CAN bus interface to OBC
- High density rigid-flex connector for I/O interface and power



OBN-500 On-Board Networked Controller

## Technical Specifications

<b>Dimensions</b>	144 mm (L) x 100 mm (W) x 18 mm (H)
<b>Power</b>	5V inputs 1.5 W power consumption
<b>Mass</b>	110 g
<b>Temperature</b>	-20°C to +70°C operating -40°C to +85°C non-operating
<b>CPU</b>	C515C Micro-controller, with built-in watchdog
<b>I/O</b>	32 digital output lines 5 digital input and 5 ADC channels, with 3 mux lines to expand to 40 channels each SPI interface CAN Bus interface 1 X UART interface
<b>TC/TM Interface</b>	Interface to CAN bus @ 500Kbps



OBN-500 On-Board Networked Controller

Note: All specifications are subject to change without notice.  
Rev. 140514