

HIGH PERFORMANCE REAL TIME NAVIGATION UNIT

PowerRTN μ

PowerRTN μ (also known as the PowerMicro) is the latest high performance Real Time Navigation Unit from ION for use with Orca[®] and Gator[®] command and control systems. It is the successor to the well established RTN μ . PowerRTN μ makes use of the robust hardware and software already proven in the expandable and higher capacity PowerRTN μ .



MAIN FEATURES OF PowerRTN μ

- Designed for offshore survey environment, 2U 19" rack or desktop mounting
- PowerPC VME single board computer running VxWorks RTOS on 1.5 GHz processor
- 10/100/1000 Base T auto - negotiating Ethernet port, connection to Nav network
- Interface support for ~ 250 input sensors and header formats
- Built-in NTP server
- 7 serial ports - all selectable for RS232 or RS422/RS485/NMEA 0183
- 4 output triggers - selectable TTL active HI/LO or relay NO/NC
- 2 input triggers - selectable active HI/LO
- GPS clock delivering accurate time and standalone GPS position to initiate navigation calculation
- GPS clock 'holdover' mode keeps time for approximately 24 hours during GPS signal outage
- All input and output connectors on rear panel
- Data activity LED indicators on front panel
- Universal input power supply
- 4 cooling fans in push-pull configuration
- CE Mark, FCC Mark & RoHS compliant





Dimensions & Power

Dimensions	480mm x 550mm x 90mm (2U High)
Weight	12 Kg
Power Supply	Universal Input 110-240V 50/60Hz
Power Dissipation Maximum	175W (< 0.5A @ 220V AC, <1.0A@ 110V AC)

Environmental

Operating Temperature	0°C to + 45 °C, Forced Air Cooling
Storage Temperature	-40 °C to +80 °C
Operating Humidity (NC)*	5% to 85%
Storage Humidity (NC)*	5% to 95%
*Non-condensing	

EMC Compliance and Electrical Safety

Electromagnetic Compatibility, Generic Emission Standard Part 6-4	EN61000-6-4:2007 +A1:2011
Electromagnetic Compatibility, Generic Immunity Standard Part 6-2	EN61000-6-2:2005
Electrical Safety Assessment, Low Voltage directive Testing LVDT	EN60950-1:2006 +A2:2013

ION has been delivering solutions to the oil and gas industry for over 40 years, and is the leading provider of real-time, multi-vessel positioning and control systems. For further information contact cs1-sales@iongeo.com.

About ION
 ION is a leading provider of technology-driven solutions to the global oil and gas industry. ION's offerings are designed to help companies reduce risk and optimize assets throughout the E&P lifecycle.