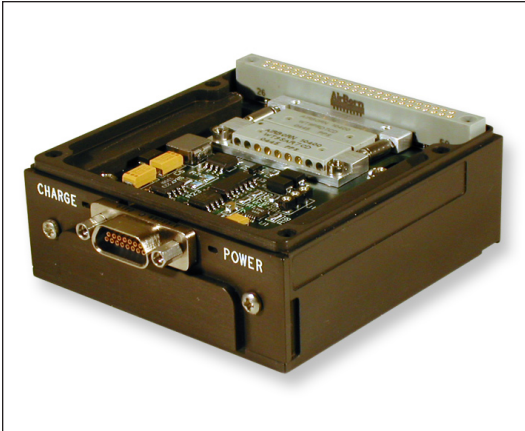


Battery Back-up Module



Applications

- Flight Test Instrumentation
- Wideband Testing, Structural Analysis
- Physical Research and Experimentation

Features

- Rechargeable battery back-up unit for VBATT supply voltage in MEDAU/MCDAU-2000 stack
- Provides back-up current of 60mA @ +5Vdc for at least 4 hours, sufficient to power the time base circuitry of an MIRG-101B or MGPS-101 time code generator module
- Automatically switches to system power when available
- Uses high energy density Li-Ion plug-in battery module
- Battery may be recharged off line by external charger unit or in place by system power
- Standard 0.9" wide module
- Wide operating temperature range, -20°C to +60°C

Description

The MBBU-200-1 battery back-up unit provides regulated +5Vdc at up to 100mA to the VBATT rail of a MEDAU-2000 Miniature E-Bus Data Acquisition Unit or a MCDAU-2000 Miniature CAIS Bus Data Acquisition Unit when system power is unavailable. The MBBU-200-1 has sufficient energy capacity to power the time base circuitry of an MIRG-101B or MGPS-101 time code generator module for at least 4 hours in the absence of system power. When the system power is applied, the VBATT rail is automatically switched over to the system 5VDC supply. The system 5VDC supply is also used to recharge the battery. The battery recharge current is programmable through wiring of the input connector. The plug-in battery unit may be removed for charging from an external 5VDC power supply. This will recharge the battery using the 0.9 Amp recharging current. A fully depleted battery can be restored to full charge in 4 hours by either external or in-place charging at 0.9 Amps. The lower recharge current settings will take proportionally longer to fully recharge the battery. Battery charging is permitted over a temperature range of 0°C to +50°C. A sensor in the battery pack will detect when conditions are outside of this range and inhibit charging.

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