Product Specifications

Real Time Clock

Overview

The Freeport RTC utilizes a MCP2221 (USB-to-UART/I2C serial converter) microchip to enable connectivity to the Freeport Mercury unit to provide extremely accurate timekeeping via a Hi-tech DS3231 RTC chip.

Features

- Temperature-Compensated Crystal Oscillator
- DS3231 Advanced Processor
- MCP2221 IC
- I2C/SMBus
- Pins for Serial (UART) Communication
- 64-byte Transmit
- 64-byte Receive
- USB 2.0 Compliant
- Low Power Consumption
- No WiFi
- No Bluetooth

Specifications

- Accuracy (32ºF to 104ºF) ±2ppm
- Accuracy (-40ºF to 185ºF) ±3.5ppm
- Rechargeable Battery Backup
- Time and Date Stamp
- Fast I2C Interface (Up to 400kHz)
- 5V Operating Voltage
- Inbuilt Temp Sensor Output ±3ºF Accuracy
- RoHS Compliant, UL Rated