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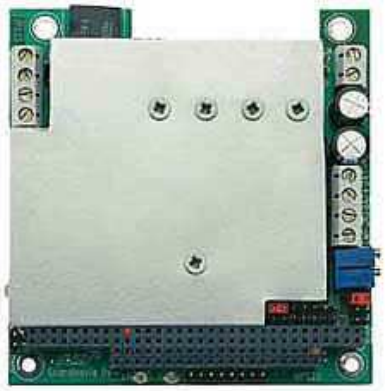
Find the *RTD Embedded Technologies SK-UPS25-1* at our website: *Click HERE*

RTD Embedded Technologies, Inc.
103 Innovation Blvd. State College, PA 16803 (814)-234-8087

UPS25
PC/104 utilityModule™
UPS with Power Management & NiMH/NiCd Charger

FEATURES:

- Complete battery backup system for embedded computers, 5 to 30 minutes operational
- Wide input range 10-40 VDC
- Charger current limited to 1.2A
- Battery output voltage +9.6V nominal, 1.5Ah
- Adjustable backup voltage trip level
- Charger modes: Fast charge, Top off charge, and Trickle charge
- Battery temperature, voltage condition monitoring
- Two charger status LED's
- Software controlled charger operation and diagnostics
- Disconnects battery and power during shutdown
- Fully PC/104 compliant



UPS25 Uninterruptible Power Supply

APPLICATIONS:

- Mobile and Automotive Systems
- Marine and Airborne Applications
- Industrial Systems

DESCRIPTION:

View block diagram

The UPS25 is a flexible PC/104 uninterruptible power supply subsystem that is designed to work together with the RTD EPWR104 and HPWR104 power supply utilityModules to form a reliable power supply system. This scheme will allow main power interruption up to 30 minutes while still maintaining complete computer operation.

The main 10 to 40V DC input is supplied to the UPS25 unit. While the supply is over 10V the UPS25 will charge the local short term backup NiMH/NiCd battery pack using one of the charging modes of the UPS25. These charge modes are automatically controlled by the onboard charger circuitry. The charging of the batteries can be controlled from your application software as well as the current UPS status and power states can be interrogated at any time. The power supply module receives power through the UPS25 and will operate either from the main supply or from the backup battery during main supply power failure. An interrupt can be generated when the main power fails, and there is also a status bit that will indicate a soon-to-be discharged battery.

The UPS25 features a unique shutdown mode where your application software can disconnect the UPS battery after it is ready to shut down. After the UPS25 is put to sleep the backup battery is disconnected to save the backup battery from being unnecessarily discharged.

The charging unit on the UPS25 ensures that maximum battery life is achieved. The onboard NiMH/NiCd charger accepts 8 batteries with a maximum capacity of 1500 mAh. The nominal full battery voltage is approximately 11.5V while a completely discharged battery pack will give 7.5V. Battery temperature is used to terminate the charge process as well as to

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protect the battery from being charged outside the recommended charge temperature range of +5 to +50C. NiMH batteries will provide backup in the temperature range of -5 to +70C while NiCd batteries will provide backup over the complete -40 to +70C range. The standard UPS25 is delivered without a battery pack, but with a 10K thermistor allowing the construction of custom configured battery units. Starter kits are available with 1500 mAh NiMH or 1000 mAh NiCd battery pack equipped with a 10K NTC thermistor. Please contact the factory for more details on available options.

Physical Attributes:

- **Size: 90mm L x 96mm W x 15mm H (3.6"L x 3.8"W x 0.6"H)**
- **Weight: Approximately 0.14 Kg (0.32 lbs.)**
- **Board Operating Temperature: -40° to +85°C: 90% humidity non-condensing (Limited by Battery Technology)**
- **Board Storage Temperature: -55° to +125 °C (Limited by Battery Technology)**
  - **Charging Temperature: +5° to +50°C**
  - **NiMH Backup Temperature: -5° to +70°C**
  - **NiCd Backup Temperature: -40° to +70°C**

Ordering Information

Part Number	Description	OEM Price
UPS25-1	NiMH Charger	$ 309
UPS25TX-1	For use in IDAN Frame	$ 309
UPS25-2	NiCd Charger	$ 309
UPS25TX-2	For use in IDAN Frame	$ 309
SK-UPS25-1	NiMH Charger with 8 AA 1500 mAh cell pack	$ 445
SK-UPS25-2	NiCd Charger with 8 AA 1000 mAh cell pack	$ 445

View Manual for Pinout Add-on Modules IDAN Systems

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