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SATURN Reader PCB Interface Summary by Reference Designation

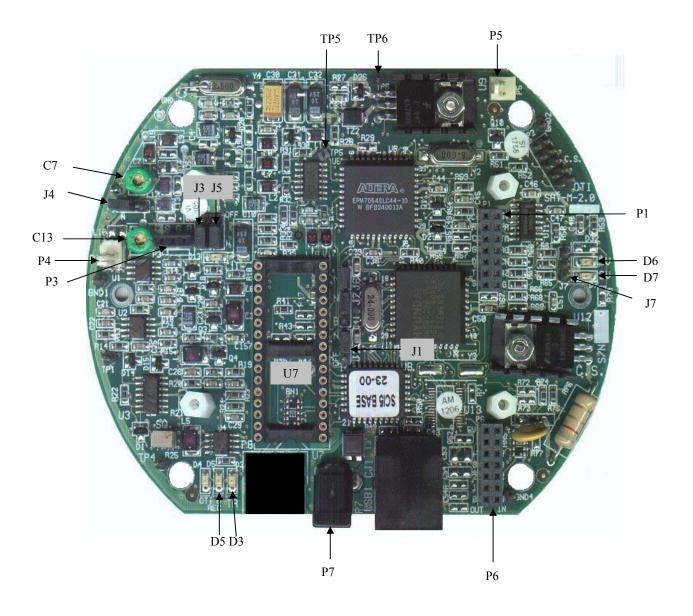


Figure -1: SATURN Reader PCB Layout Front

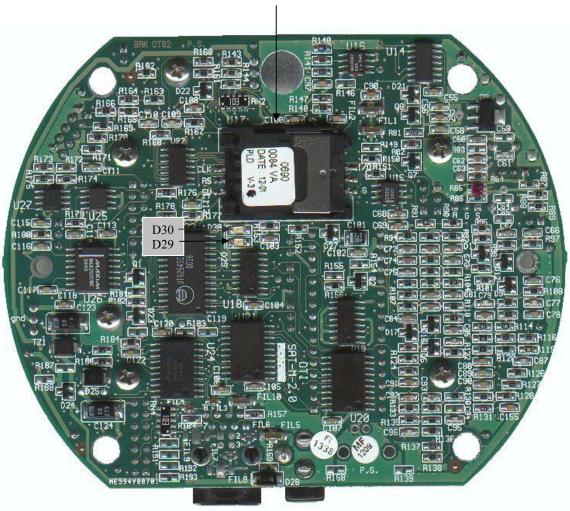


Figure 2: SATURN Reader PCB Layout Back

1.1.1 Connectors

- P1 14 pin digital I/O connector to Antenna PCB.
- P3 3 pin Antenna connector to Antenna PCB.
- P4 2 pin connector for measurement of transmitter voltage.
- P5 2 pin connector for measurement of transmitter current.
- P6 Optional 14 pin digital I/O connector.
- **P7** 12VDC power input jack connector. (+=Center)
- CJ1 RJ45 connector for RS232 serial communication to host.
- 1.1.2 LEDs
- D3 Transmit indicator (green).
- D5 Receive indicator (yellow).
- D6 +5V (red).
- **D7** +9V (red)
- D29 Transmit indicator (green).
- D30 Squelch indicator (yellow).
- 1.1.3 Jumpers
- J1 Transmit selector: (MT/CONT/OFF)
- J3 Transmitter modulation selector: (MT/CONT/OFF)
- J4 Antenna selector: Normal Transmission to antenna/50 Ω load at transmitter output (maintenance only).
- J5 Transmitter carrier selector: (MT/CONT/OFF)
- J7 Optional connection to external SAM.

1.1.4 Tuning Capacitors

C7 Transmitter tuning.

C13 Antenna matching variable capacitor VCp Test Points

TP5 Squelch measuring point.

TP6 Received data input to µP measuring point.

1.1.5 SAM

SAM Secured Applications Module.

Two PCBs layout





