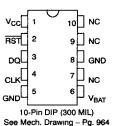


DS1200 Serial RAM Chip

FEATURES

- 1024 bits of read/write memory
- Low data retention current for battery backup applications
- · 4 million bits/second data rate
- · Single byte or multiple byte data transfer capability
- . No restrictions on the number of write cycles
- Low-power CMOS circuitry
- · Applications include:
 - software authorization
 - computer identification
 - system access control
 - secure personnel areas
 - -- calibration
 - automatic system setup
 - traveling work record

PIN ASSIGNMENT



		$\overline{}$	_		
v_{cc}	Ш	1	16	T	NC
NC	田	2	15	Ш	NC
RST	Ш	3	14	Ш	NC
DQ	Щ	4	13		GND
NC	Щ	5	12	Ш	NC
CLK	Ш	6	11		NC
NC	Ш	7	10	Ш	NC
GND	m		0	hm	VRAT

16-Pin SOIC (300 MIL) See Mech. Drawing – Pg. 968

PIN DESCRIPTION

V_{CC} - +5 Volts RST - RESET

DQ – Data Input/Output

 CLK
 - Clock

 GND
 - Ground

 V_{BAT}
 - Battery (+)

 NC
 - No Connection

DESCRIPTION

The DS1200 Serial RAM Chip is a miniature read/write memory which can randomly access individual 8-bit strings (bytes) or sequentially access the entire 1024-bit contents (burst). Interface cost to a microprocessor is minimized by on-chip circuitry which permits data transfers with only three signals: CLOCK, RST, and DATA IN-PUT/OUTPUT.

Nonvolatility can be achieved by connecting a battery of 2 to 4 volts at the battery input V_{BAT} . A load of 0.5 μA

should be used to size the external battery for the required data retention time. If nonvolatility is not required the V_{BAT} pin should be grounded.

For a complete description of operating conditions, electrical characteristics, bus timing, and signal descriptions other than V_{BAT} , see the DS1201 Electronic Tag 1024-Bit data sheet.

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