DS630x

DALLAS
SEMICONDUCTOR
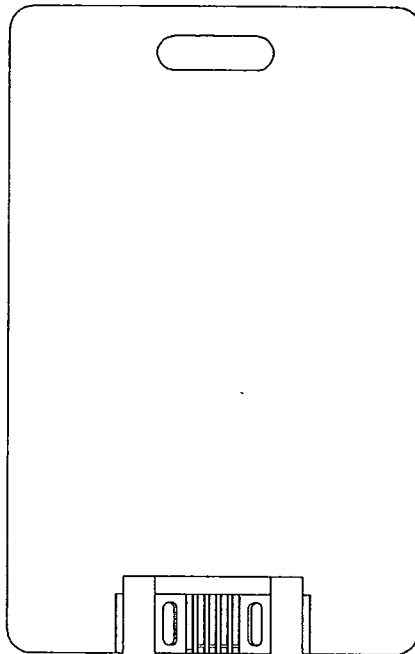
DS630x
CyberCard

T 52-13-90

FEATURES

- Greater than 50,000 cycle connector life

- Durable and rugged

- Ground pin makes first and breaks last

- 3-wire serial interface (DQ, CLK, and RST\) simplifies microprocessor interconnect

- Guided entry on mating connector overcomes orientation problems

- Greater than 10 years of data retention with no limitations or restrictions on write cycles

- Low-power CMOS circuitry

- Applications include software authorization, computer identification, system access control, calibration, data storage, automatic system setup, and travelling work record

DESCRIPTION

CyberCards are credit card-shaped electronic memories with self-contained lithium energy sources. Depending upon the memory device internal to the CyberCard, secure, non-secure, time-related, and combinations of these functions are available. Interface cost to a microprocessor is minimized by on-chip circuitry which permits data transfers with only three signals: CLK (clock), RST\ (reset), and DQ (data). Low pin count and a guided entry for a mating receptacle overcome mechanical problems normally encountered when a conventional integrated circuit package is inserted by the end user. Cyber-

PACKAGE DESCRIPTION

PIN NAMES

1	Ground
2	Clock
3	Data
4	RST\
5	V_{cc}

Cards are designed to be rugged and durable enough to withstand normal handling with a life expectancy of over ten years. Small, lightweight construction makes the devices suitable for carrying in a pocket or direct attachment to an object. Figure 1 lists the memory devices utilized in the different CyberCards. For further information please see the referenced data sheet.

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CYBERCARD DEVICES Figure 1

CYBERCARD	DESCRIPTION	RELATED DATA SHEET
DS6301	1024 bits non-secure static RAM	DS1200
DS6304	128-bit secure static RAM: 64-bit password and 64-bit ID	DS1204
DS6305	3 secure 384-bit sub-keys, 512-bit scratch-pad	DS1205
DS6307	384-bit secure static RAM: Internal Time Key (1 to 512 days)	DS1207