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# HB56U132 Series

1,048,576-word  $\times$  32-bit High Density Dynamic RAM Module

# HITACHI

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## Description

The HB56U132 is a  $1\text{M} \times 32$  dynamic RAM module, mounted 8 pieces of 4-Mbit DRAM (HM514405CS) sealed in SOJ package.

An outline of the HB56U132 is 72-pin single in-line package. Therefore, the HB56U132 makes high density mounting possible without surface mount technology. The HB56U132 provides common data inputs and outputs. Decoupling capacitors are mounted beneath each SOJ on the module board.

The HB56U132 offers Extended Data Out (EDO) page mode as a high speed access mode.

## Features

- 72-pin single in-line package
  - Lead pitch: 1.27 mm
- Single 5 V ( $\pm 5\%$ ) supply
- High speed
  - Access time:  $t_{\text{RAC}} = 60/70$  ns (max)
- Low power dissipation
  - Active mode: 4.62/4.20 W (max)
  - Standby mode: 84 mW (max)
- EDO page mode capability
- 1,024 refresh cycles: 16 ms
- 2 variations of refresh
  - $\overline{\text{RAS}}$ -only refresh
  - $\overline{\text{CAS}}$ -before- $\overline{\text{RAS}}$  refresh
- TTL compatible

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## Ordering Information

Type No.	Access Time	Package	Contact Pad
HB56U132B-6C	60 ns	72-pin SIP socket type	Gold
HB56U132B-7C	70 ns		
HB56U132SB-6C	60 ns	72-pin SIP socket type	Solder
HB56U132SB-7C	70 ns		

Note: The specification of this device are subject to change without notice. Please contact your nearest Hitachi’s Sales Dept. regarding specification.