



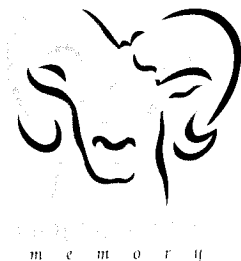
## 2x72 synchronous DIMM module

The GOLDENRAM 2X7210-GR is a 2M bit x 72 Synchronous Dynamic RAM high density memory module. The GOLDENRAM 2X7210-GR consists of nine CMOS 2M x 8 bit Synchronous DRAMs in TSOP-II 400mil package and a 1K or 2K EEPROM in 8-pin SOP package on a 168-pin glass-epoxy sub-strate. Two 0.1uF decoupling capacitors are mounted on the printed circuit board in parallel for each SDRAM. The GOLDENRAM 2X7210-GR is a Dual In-line Memory Module and is intended for mounting into 168-pin edge connector sockets. Synchronous design allows precise cycle control with the use of system clock. I/O transactions are possible on every clock cycle. Range of operating frequencies, programmable latencies allows the same device to be useful for a variety of high bandwidth, high performance memory system applications.

### Features

#### Performance range

- Burst Mode Operation
- Auto & Self Refresh Capability (4096 cycles /64ms)
- LVTTTL compatible inputs and outputs
- Single 3.3V<sub>i</sub>-0.3V power supply
- WCBR cycle with address key programs Latency (Access from column address) Burst Length (1, 2, 4, 8 & Full page) Data Scramble (Sequential & Interleave)
- All inputs are sampled at the positive going edge of the system clock
- Serial Presence Detect with EEPROM
- PCB : Height(1,000mil)



m e m o r y

**PC-100 COMPATIBLE**

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**TOLL-FREE TECH SUPPORT**

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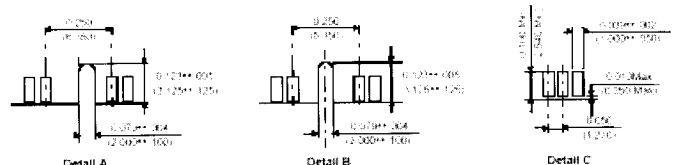
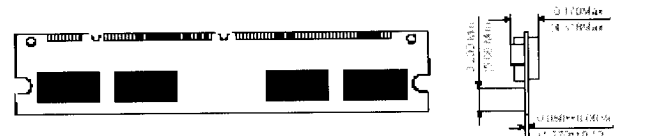
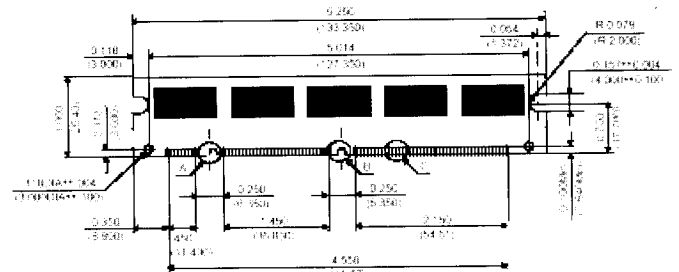
**MACHINE SPECIFIC TESTING**

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**OPTIMAL SIGNAL INTEGRITY**

### Benefits

- GOLDENRAM DIMM Modules Are Backed By A True Lifetime Warranty and Are Compliant With Today's Leading Systems
- GOLDENRAM DIMM Modules Are Compliant With ISO 9001 Specifications To Ensure Quality and Reliability
- GOLDENRAM DIMM Modules Meet OEM Specifications To Ensure Compatibility With Today's Most Popular Systems





## 8x72 DIMM module

### The GOLDENRAM

8x72-GR is a 8Mx72bits

Dynamic RAM high density

memory module. The

GOLDENRAM 8x72-GR

consists of thirty six CMOS

4Mx4bits DRAMs in SOJ

300mil package, and two

16bits driver IC in 48pin

TSSOP package mounted

on a 168-pin glass-epoxy

substrate. A 0.1 or 0.22uF

decoupling capacitor is

mounted on the printed

circuit board for each

DRAM. The GOLDENRAM

8x72-GR is a Dual In-line

Memory Module and is

intended for mounting into

168 pin edge connector

sockets.

### Features

Performance range

- Fast Page Mode Operation
- CAS-before-RAS Refresh capability
- RAS-only and Hidden refresh capability
- TTL compatible inputs and outputs
- Single 3.3V±0.3V power supply
- JEDEC standard pinout & Buffered PDpin
- Buffered input except RAS and DQ
- PCB : Height(1,500mil), double sided component



m e m o r y

TRUE LIFETIME WARRANTY

TOLL-FREE TECH SUPPORT

MACHINE SPECIFIC TESTING

OPTIMAL SIGNAL INTEGRITY

### Benefits

- GOLDENRAM DIMM Modules Are Backed By A True Lifetime Warranty and Are Compliant With Today's Leading Systems
- GOLDENRAM DIMM Modules Are Designed and Duration Tested In The Machines They Were Designed For
- GOLDENRAM manufactures a broad range of computer and laser printer upgrade products for every major brand system on the market
- GOLDENRAM DIMM Modules Meet OEM Specifications To Ensure Compatibility With Today's Most Popular Systems

