

## 2Megx32 Flash Module

The EDI7F342MC and EDI 7F2342MC are organized as one and two banks of 2Meg x 32 respectively. The modules are based on Sharp's LH28F016SU-2Megx8 Flash device in TSOP packages which are mounted on an FR4 substrate

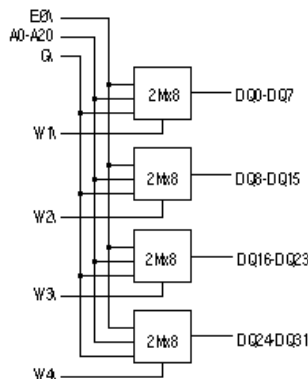
Both modules offer access times between 80 and 150ns allowing for operation of high-speed microprocessors without wait states.

### Features

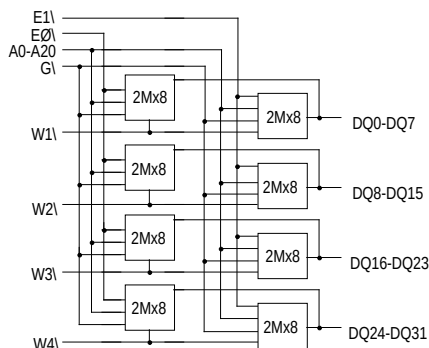
- 2 Meg x 32 and 2 x 2 Meg x 32 Densities
- Based on Sharp's LH28F016SU Flash Device
- Fast Read Access Time - 80ns
- 5- Volt-Only Reprogramming
- Low Power Dissipation
  - 60mA per Device Active Current
  - 10µA per Device CMOS Standby Current
- Typical Endurance >100,000 Cycles
- Single 5 Volt±10% Supply
- CMOS and TTL Compatible Inputs and Outputs
- Commercial and Industrial Temperature Range
- Package
  - 80 Pin SIMM (JEDEC)

### Block Diagrams

#### EDI7F342MC-BNC 2Megx32 80 pin SIMM



#### EDI7F2342MC-BNC



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## Capacitance

(f=1.0MHz, VIN = VCC or VSS)

| Parameter                 | Sym | 2Meg | 2x2Meg | Unit |
|---------------------------|-----|------|--------|------|
|                           |     | Max  | Max    |      |
| Address Lines             | CA  | 35   | 70     | pF   |
| Data lines                | CDQ | 15   | 30     | pF   |
| Chip & Write Enable Lines | CC  | 15   | 30     | pF   |
| Output Enable lines       | CG  | 35   | 70     | pF   |

## Pin Configurations

| Pin # | Pin Name | Pin # | Pin Name | Pin # | Pin Name | Pin # | Pin Name |
|-------|----------|-------|----------|-------|----------|-------|----------|
| 1     | VSS      | 21    | *        | 41    | A11      | 61    | DQ9      |
| 2     | VCC      | 22    | *        | 42    | A10      | 62    | DQ8      |
| 3     | NC       | 23    | *        | 43    | A9       | 63    | DQ7      |
| 4     | G\       | 24    | *        | 44    | A8       | 64    | DQ6      |
| 5     | W0\      | 25    | VSS      | 45    | A7       | 65    | DQ5      |
| 6     | W1\      | 26    | DQ29     | 46    | A6       | 66    | DQ4      |
| 7     | NC       | 27    | DQ30     | 47    | A5       | 67    | DQ3      |
| 8     | DQ16     | 28    | DQ31     | 48    | A4       | 68    | DQ2      |
| 9     | DQ17     | 29    | W2\      | 49    | A3       | 69    | DQ1      |
| 10    | DQ18     | 30    | NC       | 50    | A2       | 70    | DQ0      |
| 11    | DQ19     | 31    | NC       | 51    | A1       | 71    | NC       |
| 12    | DQ20     | 32    | A20      | 52    | AO       | 72    | VCC      |
| 13    | DQ21     | 33    | A19      | 53    | W3\      | 73    | PD1      |
| 14    | DQ22     | 34    | A18      | 54    | VSS      | 74    | PD2      |
| 15    | DQ23     | 35    | A17      | 55    | DQ15     | 75    | PD3      |
| 16    | DQ24     | 36    | A16      | 56    | DQ14     | 76    | PD4      |
| 17    | DQ25     | 37    | A15      | 57    | DQ13     | 77    | PD5      |
| 18    | DQ26     | 38    | A14      | 58    | DQ12     | 78    | PD6      |
| 19    | DQ27     | 39    | A13      | 59    | DQ11     | 79    | PD7      |
| 20    | DQ28     | 40    | A12      | 60    | DQ10     | 80    | VSS      |

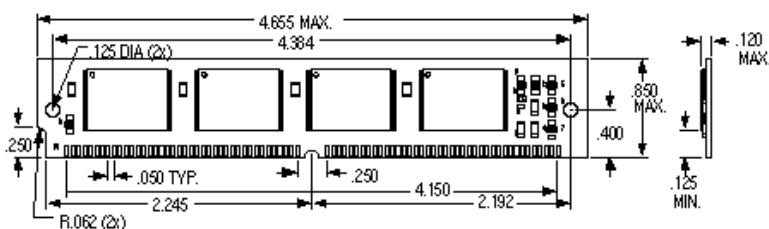
| Simm Density |      |        |
|--------------|------|--------|
| Pin          | 2Meg | 2x2Meg |
| 21           | NC   | NC     |
| 22           | NC   | NC     |
| 23           | NC   | E1\    |
| 24           | E0\  | EO\    |

| Presence Detect Pin Out |      |        |
|-------------------------|------|--------|
| Pin                     | 2Meg | 2x2Meg |
| PD1                     | NC   | NC     |
| PD2                     | VSS  | VSS    |
| PD3                     | NC   | VSS    |
| PD4                     | VSS  | VSS    |

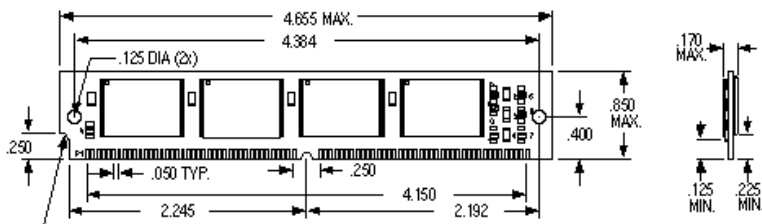
|          |                   |
|----------|-------------------|
| A0-A20   | Address input     |
| E0\, E1\ | Chip Enable       |
| W0\~W3\  | Write Enable      |
| G\       | Output Enable     |
| DQ0-DQ31 | Data Input/Output |
| PD       | Presence Detect   |
| VCC      | Power 5V±10%      |
| VSS      | Ground            |
| NC       | No Connect        |

**Ordering Information**

| Part Number      | Speed<br>(ns) | Package |
|------------------|---------------|---------|
| EDI7F342MC80BNC  | 80            | 364     |
| EDI7F342MC90BNC  | 90            | 364     |
| EDI7F342MC100BNC | 100           | 364     |
| EDI7F342MC120BNC | 120           | 364     |
| EDI7F342MC150BNC | 150           | 364     |

**Package No. 364**

**Ordering Information**

| Part Number       | Speed<br>(ns) | Package |
|-------------------|---------------|---------|
| EDI7F2342MC80BNC  | 80            | 365     |
| EDI7F2342MC90BNC  | 90            | 365     |
| EDI7F2342MC100BNC | 100           | 365     |
| EDI7F2342MC120BNC | 120           | 365     |
| EDI7F2342MC150BNC | 150           | 365     |

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