

● Strengthen type for analog function

| Memory type | Memory size (byte) | | Type No. | Package | Operating voltage range (V) | Operating temperature range (°C) |
|-------------------|--------------------|----------------|----------------|------------|-----------------------------|----------------------------------|
| | ROM | RAM | | | | |
| Mask ROM | 32K | 1024 | M37710M4BXXXFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37710M4BXXXGP | 80P6S | | |
| | | | M37710M4LXXXFP | 80P6N | | |
| | 60K | 2048 | M37710M8BXXXFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37710M8LXXXHP | 80P6D | 2.7 to 5.5 | -40 to 85 |
| | | | M37710MFBXXXFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| 120K | 2048 | M37710MFLXXXHP | 80P6D | 2.7 to 5.5 | -40 to 85 | |
| | | M37710E4BXXXFP | 80P6N | 4.5 to 5.5 | -20 to 85 | |
| | | M37710E4BXXXGP | 80P6S | | | |
| M37710E4LXXXFP | 80P6N | | | | | |
| One time PROM | 60K | 2048 | M37710E8BXXXFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37710E8LXXXHP | 80P6D | 2.7 to 5.5 | -40 to 85 |
| | 120K | 2048 | M37710EFBXXXFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37710EFLXXXHP | 80P6D | 2.7 to 5.5 | -40 to 85 |
| EPROM with window | 32K | 1024 | M37710E4BFS | 80D0 | 4.5 to 5.5 | -20 to 85 |
| | 60K | 2048 | M37710E8BFS | | | |
| | 120K | 2048 | M37710EFBFS | | | |
| Flash memory | 32K | 1024 | M37710F4BFP ★★ | 80P6N | | |
| External ROM | - | 2048 | M37710S4BFP | 80P6N | | |
| | | | M37710S4LHP | 80P6D | 2.7 to 5.5 | -40 to 85 |

*The EPROM version with window is provided for evaluation purpose.

● Built-in DMA controller type

| Memory type | Memory size (byte) | | Type No. | Package | Operating voltage range (V) | Operating temperature range (°C) |
|--------------|--------------------|-----|---------------|---------|-----------------------------|----------------------------------|
| | ROM | RAM | | | | |
| External ROM | - | 512 | M37720S1AFP | 100P6S | 4.5 to 5.5 | -20 to 85 |
| | | | M37721S1BFP ★ | | | |
| | | | M37721S2BFP ★ | | | |

● Wide use ROMless type with RTP

| Memory type | Memory size (byte) | | Type No. | Package | Operating voltage range (V) | Operating temperature range (°C) |
|--------------|--------------------|------|-------------|---------|-----------------------------|----------------------------------|
| | ROM | RAM | | | | |
| External ROM | - | 2048 | M37732S4AFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37732S4BFP | | | |
| | | | M37732S4LGP | 80P6S | 2.7 to 5.5 | -40 to 85 |
| | | | M37732S4LHP | | | |
| | | | M37732S4BHP | 80P6D | 4.5 to 5.5 | -20 to 85 |

● Built-in clock oscillator type

| Memory type | Memory size (byte) | | Type No. | Package | Operating voltage range (V) | Operating temperature range (°C) |
|-------------------|--------------------|------|-------------------|---------|-----------------------------|----------------------------------|
| | ROM | RAM | | | | |
| Mask ROM | 124K | 3968 | M37733MHBXXXFP ★ | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37733MHLXXXHP ★ | 80P6D | 2.7 to 5.5 | -40 to 85 |
| | | | M37733M4BXXXFP ★★ | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | 60K | 2048 | M37733M4LXXXHP ★★ | 80P6D | 2.7 to 5.5 | -40 to 85 |
| | | | M37733M8BXXXFP ★★ | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37733M8LXXXHP ★★ | 80P6D | 2.7 to 5.5 | -40 to 85 |
| One time PROM | 32K | 2048 | M37733M8BXXXFP ★★ | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37733M8LXXXHP ★★ | 80P6D | 2.7 to 5.5 | -40 to 85 |
| | | | M37733EHBXXXFP ★ | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37733EHLXXXHP ★ | 80P6D | 2.7 to 5.5 | -40 to 85 |
| EPROM with window | 124K | 3968 | M37733EHBFS ★ | 80D0 | 4.5 to 5.5 | -20 to 85 |
| | | | M37733EHLXXXHP ★ | 80P6D | 2.7 to 5.5 | -40 to 85 |
| ROMless | - | 2048 | M37733S4BFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| | | | M37733S4LHP | 80P6D | 2.7 to 5.5 | -40 to 85 |
| | | | M37735S4LHP | 80P6D | 2.7 to 5.5 | -40 to 85 |

● CPU core reinforcement type

| Memory type | Memory size (byte) | | Type No. | Package | Operating voltage range (V) | Operating temperature range (°C) |
|-------------------|--------------------|------|-----------------|---------|-----------------------------|----------------------------------|
| | ROM | RAM | | | | |
| Mask ROM | 32K | 1024 | M37751M4C-XXXFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| Mask ROM | 48K | 2048 | M37751M6C-XXXFP | 80P6N | 4.5 to 5.5 | -20 to 85 |
| One time PROM | | | M37751E6C-XXXFP | | | |
| EPROM with window | | | M37751E6CFS | 80D0 | | |
| Flash memory | | | M37751F6CFP ★★ | 80P6N | | |
| External ROM | - | 3072 | M37752S6CGP ★ | 100P6S | 4.5 to 5.5 | -20 to 85 |