



Long-Term Support  
World Class Quality

**IS34ML/MW**  
SLC NAND Flash

**IS35ML/MW**  
Automotive SLC NAND Flash

ISSI's NAND products complement Serial and Parallel NOR offerings from ISSI for the embedded market. ML[3.0V] Series and MW[1.8V] Series of SLC NAND will be available in densities of 1Gb, 2Gb, and 4Gb.

SLC NAND Flash memory is suited for performance oriented applications where high reliability is needed. SLC stores 1 bit of data per memory cell and offers fast read and write capabilities. These products work with systems requiring 1 bit or 4 bit ECC algorithms and offer 100K cycles of endurance with 10 years of retention.

The IS35ML/MW family is recommended for Automotive applications requiring AEC-Q100

### SLC NAND Features

- Supply Voltage
  - IS34/35 ML-Series: Vcc = 2.7V to 3.6V
  - IS34/35 MW-Series: Vcc = 1.7V to 1.95V
- Flexible x8 or x16 options
- Cost effective Uniform Blocks
- Typ Block Erase times of 3ms
- Automatic Read operations
- Hardware Data Protection
- 100K Program/Erase Cycles
- 10 year Data Retention
- Supports 1 or 4 bit ECC per 512Byte

### Temperature Grades

- Industrial Temp Grade [-40 to +85C]
- Extended Temp Grade [-40 to +105C]
- Automotive Grade A1 [-40 to +85C]
- Automotive Grade A2 [-40 to +105C]

### Industry Standard Packages

- 48-Pin TSOP
- 63 Pin [9x11 BGA]

### Applications

- Automotive infotainment
- Instrument Clusters
- ADAS
- Industrial meters
- Industrial sensors
- M2M
- POS Terminals
- Smart Metering
- Game Consoles
- Printers
- Digital Camera
- Digital TVs
- Set-top Boxes

### SLC NAND Flash

Den	Part Number	Vcc	Ecc Requirement	Bus Width	Sequential Read Speed [ns]	Temp. Range	Package Type	Status
1G	IS34/35ML01G081	3.3V	1-bit	X8	25	-40°C to 105°C	48-TSOP 63-BGA	Prod
1G	IS34/35ML01G084	3.3V	4-bit	X8	25	-40°C to 105°C	48-TSOP, 63-BGA	Prod
1G	IS34/35MW01G084	1.8V	4-bit	X8	45	-40°C to 105°C	48-TSOP, 63-BGA	Prod
1G	IS34/35MW01G164	1.8V	4-bit	X16	45	-40°C to 105°C	63-BGA	Prod
2G	IS34/35ML02G081	3.3V	1-bit	X8	25	-40°C to 105°C	48-TSOP1	S=NOW
2G	IS34/35ML02G084	3.3V	4-bit	X8	25	-40°C to 105°C	48-TSOP1	S=NOW
2G	IS34/35MW02G084	1.8V	4-bit	X8	45	-40°C to 105°C	48-TSOP1	S=NOW
2G	IS34/35MW02G164	1.8V	4-bit	X16	45	-40°C to 105°C	48-TSOP1	Contact Factory for Samples
4G	IS34/35ML04G081	3.3V	1-bit	X8	25	-40°C to 105°C	48-TSOP	Prod
4G	IS34/35ML04G084	3.3V	4-bit	X8	25	-40°C to 105°C	48-TSOP	Prod
4G	IS34/35MW04G084	1.8V	4-bit	X8	45	-40°C to 105°C	48-TSOP	Prod
4G	IS34/35MW04G164	1.8V	4-bit	X16	45	-40°C to 105°C	48-TSOP	Contact Factory for Samples

Note: IS35ML/MW family of SLC NAND is AEC-Q100 qualified