



Long-term Support
World Class Quality

Broad Portfolio of Innovative Products

ISSI's corporate core strategies are based on providing a broad portfolio of innovative products, with world class quality and long-term support that is required by the Automotive, Industrial and Medical markets.



ISSI Offers 125°C DRAM

Broad portfolio of **DRAM** Solutions for Industrial & Medical Market

| DRAM | 4Mb | 16Mb | 32Mb | 64Mb | 128Mb | 256Mb | 512Mb | 1Gb | 2Gb | 4Gb | 8Gb |
|--------------------------------|-----|------|------|------|-------|-------|-------|----------|----------|----------|-----|
| 3.3V, 5V EDO/FP | ✓ | ✓ | | | | | | | | | |
| 3.3V SDRAM | | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | |
| 2.5V DDR | | | | | ✓ | ✓ | ✓ | | | | |
| 1.8V DDR2 | | | | | | ✓ | ✓ | ✓ | ✓ | | |
| 1.35V & 1.5V DDR3/DDR3L | | | | | | | | ✓ ECC | ✓ ECC | ✓ ECC | ✓ |
| 1.2V [2.5V] DDR4 | | | | | | | | | | ✓ | ✓ |
| Mobile DRAM | 4Mb | 16Mb | 32Mb | 64Mb | 128Mb | 256Mb | 512Mb | 1Gb | 2Gb | 4Gb | 8Gb |
| 1.8V/2.5V/3.3V Mobile SDRAM | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 1.8V Mobile DDR | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 1.2V [1.8V] LPDDR2 | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.2V [1.8V] LPDDR3 | | | | | | | | | ✓ | ✓ | |
| 1.1V [1.8V] LPDDR4 | | | | | | | | | ✓ | ✓ | ✓ |

Industrial/Automotive Temperature, Long Term Support, Leaded/Lead Free

STATUS ✓ Production ✓ Roadmap ✓ Under Consideration **ECC**: Error Correcting Code is available option

Broad portfolio of **Flash** Solutions for Industrial & Medical Market



| SPI/QSPI (Serial Flash) | 256Kb | 512Kb | 1Mb | 2Mb | 4Mb | 8Mb | 16Mb | 32Mb | 64Mb | 128Mb | 256Mb | 512Mb | 1Gb | 2Gb |
|---------------------------------------|-----------------------|-----------------------|-----------------------|---------------|---------------|-------|------|------|------|-------|----------|-------|-----|-----|
| 2.5/3V | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ECC | ✓ | ✓ | ✓ |
| 1.8V | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ECC | ✓ | ✓ | ✓ |
| 1.2V Serial Flash Under Consideration | | | | | | | | | | | | | | |
| Serial SLC NAND | 512Mb | 1Gb | 2Gb | 4Gb | 8Gb | | | | | | | | | |
| 3V/1.8V | ✓ 1bit ECC | ✓ 4bit ECC | ✓ 1bit ECC | ✓ 1bit ECC | ✓ 1bit ECC | | | | | | | | | |
| Parallel Flash (NOR) | 32Mb | 64Mb | 128Mb | 256Mb | 512Mb | 1Gb | | | | | | | | |
| 3V | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| 1.8V | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| HyperFlash™ | 128M | 256M | 512M | 1Gb | 2Gb | 4Gb | | | | | | | | |
| 2.5/3V | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| 1.8V | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| SLC NAND | 1Gb | 2Gb | 4Gb | 8Gb | | | | | | | | | | |
| 3V/1.8V; x8/x16 | ✓ 1 or 4bit ECC | ✓ 1 or 4bit ECC | ✓ 1 or 4bit ECC | ✓ 4bit ECC | | | | | | | | | | |
| eMMC | 4GB | 8GB | 16GB | 32GB | 64GB | 128GB | | | | | | | | |
| 3V/1.8V | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | |

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Complete SRAM/High Speed Memory Solutions for the Industrial & Medical Market

| Asynchronous SRAMs | 64K | 256K | 512K | 1M | 2M | 3M | 4M | 8M | 16M | 32M | 64M |
|---------------------------------------|-----|-------|------|-------|-------|------|-------|-------|-------|-----|-----|
| 5V | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | | |
| High Speed Asynchronous | | ✓ | ✓ | ✓ ECC | ✓ ECC | ✓ | ✓ ECC | ✓ ECC | ✓ ECC | ✓ | |
| Ultra Low Power | | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | | |
| Pseudo SRAMs/ HyperRAM | 8M | 16M | 32M | 64M | 128M | 256M | | | | | |
| Pseudo SRAMS | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| HyperRAM | | | ✓ | ✓ | ✓ | ✓ | | | | | |
| High Speed Memory | 2M | 4M | 9M | 18M | 36M | 72M | 144M | 288M | 576M | 1G | 2G |
| Standard/No-Wait[ZBT] Synchronous | ✓ | ✓ ECC | ✓ | ✓ | ✓ | ✓ | | | | | |
| QUAD [Compatible to QDR-II™] | | | | ✓ | ✓ | ✓ | ✓ | | | | |
| QUADP/DDR1IP [Compatible to QDR-II+™] | | | | ✓ | ✓ | ✓ | ✓ | | | | |
| RLDRAM2 | | | | | | | | ✓ | ✓ | ✓ | |
| RLDRAM3 | | | | | | | | | ✓ | ✓ | ✓ |
| HP DRAM | | | | | | | | | | ✓ | |

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MCP solutions combining LPDDR2 DRAM & Serial NOR Flash in one chip package

LPDDR2 DRAM

- Density: 256M, 512M, 1G, 2G
- VDD2 = 1.2V, VDDCA/VDDQ = 1.2V, VDD1 = 1.8V
- Clock Frequency Range : 10MHz to 533MHz
- [Data rate range : 20Mbps to 1066Mbps per I/O]

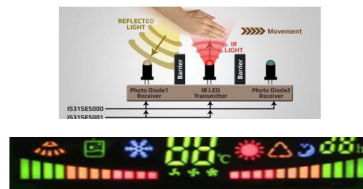
Serial NOR Flash

- Density: 64M, 128M, 256M
- VDD = 1.8V
- 532 MHz equivalent QPI
- DTR [Dual Transfer Rate] up to 66MHz

- Low Power
- 168-ball PoP BGA package
- Long-Term Support

Analog & Mixed Signal Products

FxLED & Sensors



RGB Drivers:

3, 6, 9, 10 channels

Multichannel:

16, 18, 28, 36 Channels

Matrix Drivers:

64, 128, 144 dot LED array display

Sensors:

Cap Touch, Proximity & Gesture

Applications:

Consumer, Automotive, Industrial

Audio



Class AB, Class D, Class G Amplifiers

SPA: Speaker Amplifiers:

<3W to 20W

Analog or Digital [I2S] Inputs

HPA:

Headphone Amplifiers: <100mW

SPA +HPA- Combo

Applications:

Automotive, Consumer, Medical, Industrial