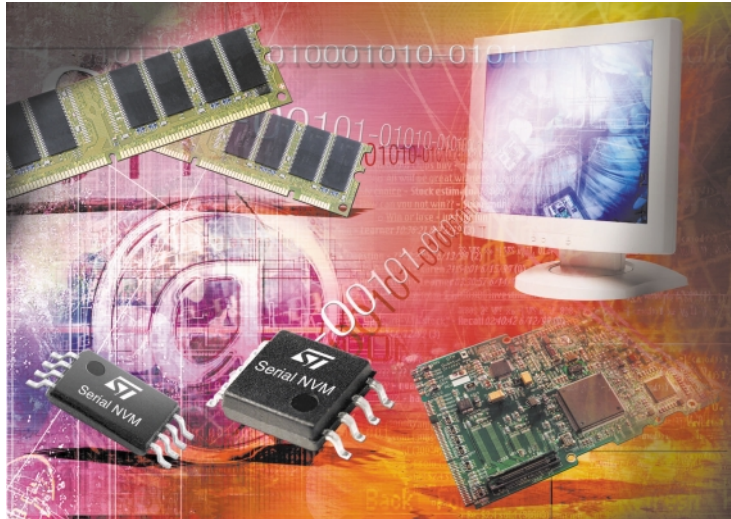


Applications Specific Standard Products

Serial Non-Volatile Memories

www.st.com/eeprom



Optimized solution offer

ASSPs are built on a common non-volatile memory technology platform, allowing a non-volatile memory core to be combined with dedicated logic on the same chip. ASSPs include serial industry standard (I²C, SPI, Microwire[®]), RF contactless access or customized interfaces. This ST family provides features either particular to a given application or requested for specific purposes. Such optimized solutions are used for TV monitors, DRAM modules and modems, but also allows customers' specific features.

Performance and low cost

ASSPs offer to designers two main advantages:

- improved overall cost/performance
- incorporation or protection of Intellectual Property
by integrating custom features or by providing secure functions.

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Applications Specific Standard Products

• M24164 Cascadable 16Kb EEPROM

Purpose: cascade serial memories on the same bus

Features: 16 Kb EEPROM with special addressing, possibility to cascade 8 devices on the same bus, Special address useful when conflict on I²C bus

Main market segment: Telecom and Industrial

Size	Reference	Voltage	Frequency	Packages
16Kb	M24164	4.5V to 5.5V	400KHz	PSDIP8, S08
16Kb	M24164-W	2.5V to 5.5V	400KHz	PSDIP8, S08

• ST24xy21 1Kb Plug&Play EEPROM

Purpose: Plug&Play function for monitor parameters storage

Features: 1Kb EEPROM VESA1 compliant (24LC21), 1Kb EEPROM VESA2 compliant (24FC21), write control function on Pin3 (24xW21)

Main market segment: monitors manufacturers (CRT and LCD)

Size	Reference	Voltage	Frequency	Packages
1Kb	ST24FC21	3.6V to 5.5V	100KHz	PSDIP8, S08
1Kb	ST24FW21	3.6V to 5.5V	100KHz	PSDIP8, S08
1Kb	ST24LC21	3.6V to 5.5V	100KHz	PSDIP8, S08

• M34C02 2Kb Plug&Play for DIMM Module

Purpose: Plug&Play function for DRAM module parameters storage (Serial presence detect)

Features: 2Kb serial I²C EEPROM with 1Kb lockable (read-only) RAMBUS compliant (2.2V)

Main market segment: DRAM module manufacturers

Size	Reference	Voltage	Frequency	Packages
2Kb	M34C02-W	2.5V to 5.5V	400KHz	S08, TSSOP8
2Kb	M34C02-L	2.2V to 5.5V	400KHz	S08, TSSOP8
2Kb	M34C02-R	1.8V to 5.5V	100KHz	S08, TSSOP8

• M34C00 for ee-Tag Application

Purpose: tag electronic boards with a small and cheap tag function dedicated EEPROM

Features: 3 banks of 128 bits, one of non-erasable memory (OTP-like), one of standard EEPROM, one of standard EEPROM which can be permanently write protected

Main market segment: all market segments

Size	Reference	Voltage	Frequency	Packages
384b	M34C00	2.5V to 5.5V	400KHz	S08, TSSOP8

• M34A02 (ACR) Advanced PC Communications Riser

Purpose: allows a host controller on the motherboard to read the configuration data from the ACR card stored in a serial EEPROM - M34A02

Features: two wire SMBus serial interface, hardware write control, supports standard 100 KHz -serial bus protocol

Main market segment: ACR Riser Card (modem, Ethernet, phonenumber, wireless networking, xDSL and audio functions)

Size	Reference	Voltage	Frequency	Packages
2Kb	M34A02	2.7V to 3.6V	100KHz	S08, TSSOP8

• M34D64 Upper Quarter Hardware Write Control

Purpose: allows hardware write protect for upper quarter of the memory

Features: upper hardware write control feature

Main market segment: Computer

Size	Reference	Voltage	Frequency	Packages
64Kb	M34D64-W	2.5V to 5.5V	400KHz	PSDIP8, S08



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