SEIKO INSTRUMENTS EEPROMs, RTC and Logic

SII

RoHS Compliant This product is RoHS compliant.

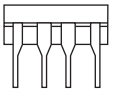
S-24CXX SERIES: 2-WIRE BUS SERIAL EEPROMS

The Seiko S-24Cxx Series are 2-wire bus serial EEPROMs characterized by low power consumption and wide operating voltage. Each is capable of page write and sequential read.

Specifications:
- Low power consumption: Standby: 2.0uA Max (Vcc = 5.5V)
  Read: 0.8mA Max (Vcc = 5.5V)
- Operating voltage range: Read: 1.8 to 5.5V (at -40°C to +85°C)
  Write: 2.7 to 5.5V (at -40°C to +85°C)
- Operating frequency: 400kHz (Vcc=5 V±10 %, at -40°C to +85°C)
- Write disable function when power supply voltage is low
- Endurance: 100,000,000 cycles/word (at +25°C) write capable
  10,000,000 cycles/word (at +85°C)
  3x1,000,000 cycles/word (at +105°C)

RoHS Compliant

DIP-8



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Case Type	Density	Organization	Temperature Range (°C)	Price Each 1	100	500	1000
Surface Mount									
628-S-24C02CI-J8T1U	S-24C02CI-J8T1U	SOP-8	1K	128x8	-40 to +85	.54	.45	.411	.383
628-24CS08AFJ-G	S-24CS08AFJ-TB-G	SOP-8	8K	1Kx8	-40 to +85	.48	.41	.36	.34
628-24CS16A0IJ-G	S-24CS16A0I-J8T1G	SOP-8	16K	2Kx8	-40 to +85	1.40	1.19	1.05	.98
628-S-25C020A0IJ8T1U	S-25C020A0I-J8T1U	SOP-8	2K	256x8	-40 to +85	.49	.44	.39	.36

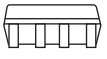
S-93CXX SERIES: 3-WIRE BUS SERIAL EEPROMS

The Seiko S-93Cxx Series are high speed, low power EEPROMs with a wide operating voltage range. Each is capable of sequential read, at which time addresses are automatically incremented in 16-bit blocks. The instruction code is compatible with the NM93CS46/56/66 Series.

Specifications:
- Low current consumption: Standby: 1.5 uA Max (Vcc = 5.5V)
  Operating: 0.8 mA Max (Vcc = 5.5V)
  0.4 mA Max (Vcc = 2.5V)
- Operating voltage range: Read: 1.8 to 5.5V (at -40°C to +85°C)
  Write: 2.7 to 5.5V (at -40°C to +85°C)
- Write disable function when power supply voltage is low
- Function to protect against write due to erroneous instruction recognition
- Endurance: 10,000,000 cycles/word (at +85°C)
  3x1,000,000 cycles/word (at +105°C)
  100,000,000 cycles/word (at +25°C)
- Data retention: 10 years (after 10,000,000 cycles/word at +85°C)

RoHS Compliant

TSSOP-8



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Case Type	Supply Volt.(Typ.)	Bus Type	Temperature Range (°C)	Supply Volt. Range	Time Keeping Volt Range (Max)	Price Each 1	100	500	1000
Surface Mount											
628-93C46BD-J8-G	S-93C46BD0I-J8T1G	SOP2-8	1K	64x16	-40 to +85	1.8 to 5.5	1.0	.54	.45	.411	.383
628-93C66BD-J8-G	S-93C66BD0I-J8T1G	SOP2-8	4K	256x16	-40 to +85	1.8 to 5.5	1.0	.92	.851	.775	.707
Thru-Hole											
628-93C56BD-D8-G	S-93C56BD0I-D8S1G	DIP-8	2K	128x16	-40 to +85	1.8 to 5.5	1.0	.54	.45	.412	.383

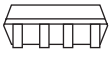
REAL TIME CLOCKS (RTC), SURFACE MOUNT

The S-35190A and S-35390A are low-current-consumption CMOS real-time clock ICs that feature a wide operating voltage range (1.3V to 5.5V) and can be driven on a variety of supply voltages, from a main supply to a backup supply. The time keeping current consumption of 0.25μA and minimum time keeping operation voltage of 1.1V enable greatly increased battery duration.

Specifications:
- Low current consumption: Standby: 1.5uA Max (Vcc = 5.5V)
- Wide operating range: 1.3 to 5.5V
- Minimum time keeping operation voltage: 1.1V
- Built-in clock adjustment function
- Built-in free user register
- Built-in alarm interrupter
- Built-in flag generator at power down or power on
- Auto calendar up to the year 2099, automatic leap year calculation function
- Built-in constant voltage circuit
- Built-in 32kHz crystal oscillator (Cd built in, Cg external)

RoHS Compliant

SOP-8
SOP2-8



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Case Type	Supply Volt.(Typ.)	Bus Type	Temperature Range (°C)	Supply Volt. Range	Time Keeping Volt Range (Max)	Price Each 1	100	500	1000
628-35390A-T8-G	S-35390A-T8T1G	TSSOP-8	3.0	2-Wire	-40 to +85	1.3 to 5.5	5.5	.89	.80	.71	.66

SINGLE GATE MINI-LOGIC, SURFACE MOUNT

S-75V Series (High Speed)

The S-75V series is a single gate fabricated by utilizing advanced silicon-gate CMOS technology which provides the inherent benefit of CMOS low power consumption to achieve ultra high speed operation correspond to LSTTL IC' s. Input voltage is allowed to be applied even if power voltage is not supplied because no diode is inserted between an input pin and VCC. This allows for interfaces between power supplies of different voltage, output level conversion from 5V to 3V and battery backup applications.

Specifications:
- Supply voltage: 2.0 to 5.5V
- Operating temperature: -40°C to +85°C
- Output current: +/- 25mA
- Propagation delay time: 3.5ns @ 5V

Applications:
- Personal computers, peripherals
- Cell phones
- Cameras
- Games

RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Package Type	Description	Price Each 1	100	500	1000
628-75V02AN-G	S-75V02ANC-5V3-TFG	SC-88A	Single 2-input NOR gate	.23	.20	.18	.16
628-75V04AN-G	S-75V05ANC-5V5-TFG	SC-88A	Single unbuffered inverter	.23	.20	.18	.16
628-75V08AN-G	S-75V08ANC-5V2-TFG	SC-88A	Single 2-input AND gate	.23	.20	.18	.16
628-75V14AN-G	S-75V14ANC-5V1-TFG	SC-88A	Single schmitt inverter	.23	.20	.18	.16
628-75V32AN-G	S-75V32ANC-5V4-TFG	SC-88A	Single 2-input OR gate	.23	.20	.18	.16
628-75V86AN-G	S-75V86ANC-5V8-TFG	SC-88A	Single exclusive OR gate	.23	.20	.18	.16

S-75L Series (Low Voltage)

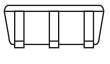
The S-75L series is a single gate fabricated by utilizing advanced silicon-gate CMOS technology which provides the inherent benefit of CMOS low power consumption to achieve operation by only a couple of batteries (1 to 3V). Input voltage is allowed to be applied even if power voltage is not supplied because no diode is inserted between an input pin and VCC. This allows for interfaces between power supplies of different voltage, output level conversion from 3V to 1V and battery backup applications.

Specifications:
- Supply voltage: 1.0 to 3.6V
- Operating temperature: -40°C to +85°C
- Output current: +/- 12.5mA
- Propagation delay time: 7ns @ 3V

Applications:
- Personal computers, peripherals
- Cell phones
- Cameras
- Games

RoHS Compliant

SC-88A



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Package Type	Description	Price Each 1	100	500	1000
628-75L00AN-G	S-75L00ANC-5L1-TFG	SC-88A	Single 2-input NAND gate	.25	.22	.20	.18
628-75L02AN-G	S-75L02ANC-5L3-TFG	SC-88A	Single 2-input NOR gate	.25	.22	.20	.18
628-75L04AN-G	S-75L04ANC-5L5-TFG	SC-88A	Single unbuffered inverter	.25	.22	.20	.18
628-75L32AN-G	S-75L32ANC-5L4-TFG	SC-88A	Single 2-input OR gate	.25	.22	.20	.18
628-75L86AN-G	S-75L86ANC-5L8-TFG	SC-88A	Single exclusive OR gate	.25	.22	.20	.18
628-75LU04AN-G	S-75LU04ANC-5L6TFG	SC-88A	Single inverter without buffer	.25	.22	.20	.18

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