

Published on EMAC Inc. (https://www.emacinc.com)

Source URL: https://www.emacinc.com/content/som-ne64m

## SoM-NE64M



Small, 144 pin SODIMM form factor (2.66" x 1.5")

FreeScale MC9S12NE64 (64HCS12) 50 MHz 16-Bit Processor

10/100 BaseT Ethernet

64 KB Flash

8 - 512 KB RAM

32 KB EEPROM

2 TTL, 1 SPI, 1 I2C, 1-Wire®

16 Programmable General Purpose I/O's

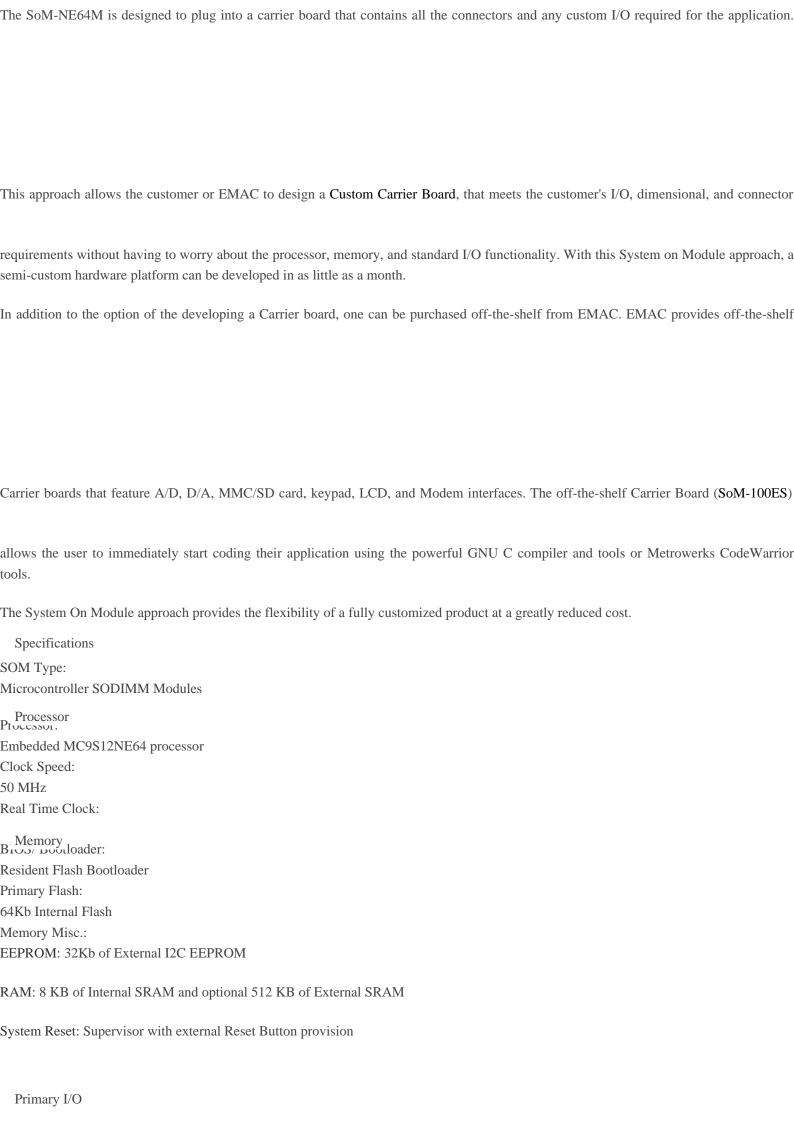
4, 16-bit, Timer/Counters, PWM/Compare, Watchdog

A/D

Real Time Clock

The SoM-NE64M is Based on the Freescale MC9S12NE64 processor. This 16-bit 68HC12 compatible processor has an Ethernet MAC and PHY built-in along with 2 serial ports. It Features 64 KB of Flash, enough to hold large applications, 32 KB of EEPROM and 8 KB of RAM. Another 512 KB of RAM can be added as an option.

Using the same small SODIMM form-factor utilized by other EMAC SoM modules, the SoM-NE64 is the ideal processor engine for your next design. All of the NE64 processor core is included on this tiny board including: Flash, Memory, Serial Ports, Ethernet, I2C, PWMs, Timer/Counters, A/D, digital I/O lines, Clock/Calendar, and more.



GPIO:
16x General Purpose I/Os can be software configured as inputs or outputs SPI:
High-Speed hardware SPI port
Serial Ports:
2 serial TTL level serial ports with a max. baud rate of 115K baud (each UART requires external RS level shifting) I2C:
Hardware Bus Controller
Watchdog:
Timers/ Counters/ PWM:
4x 16-bit timers/counters with capture/compare and PWM capability
LPT Port:
Keypad:
PS/2:
Secondary I/O Misc.:
1-Wire: Hardware 1-Wire® Bus Master capability
Analog on A. D.
D/A:
Analog Misc.:
Analog I/O: 8 channel, 10-bit queued analog-to-digital converter
Dimensions
Dimensions Dimensions.
$2.66 \times 1.5$ in
Form Factor:
144-pin SODIMM
Power Requirements Voltage.
3.3 V
Typical Current:
200 mA
Typical Voltage: 3.3 V
Environmental Low Operating Temperature:
0 C
High Operating Temperature:
70 C
Upper Operating Humidity:
90%
Pricing Non-Stock Minimum Order:
50
Non-Stock NCNR:
1
Carrier Boards:

\$95.00

SoM-100ES-007

Bare Bones Carrier Board

Standard Carrier Board
\$150.00
Base Product:
SoM-100ES
SoM-100ES-030
Standard Carrier Board with A/D, D/A
\$250.00
Base Product:
SoM-100ES

Base Product: SoM-100ES SoM-100ES-000

Source URL: https://www.emacinc.com/content/som-ne64m