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MN102H460B

Type		**MN102H460B [ES (Engineering Sample) available]**
ROM (×8-Bit)		External
RAM (×8-Bit)		4 K
Minimum Instruction Execution Time	With Main Clock operated	**50 ns (at 3.0 V to 3.6 V, 40 MHz)** **100 ns (at 2.0 V to 3.6 V, 20 MHz)**

Interrupts

• $\overline{\text{RST}}$ Pin • Watchdog • NMI Pin • Timer Counter 4 to15 • Timer Counter 16, 17, 21
• Timer Counter 16 to 20 Compare Capture A • Timer Counter 16 to 20 Compare Capture B
• Timer Counter 21 Capture A • Timer Counter 21 Capture B • Timer Counter 21 Capture D
• Timer Counter 21 Compare E • Timer Counter 21 Compare F • ATC ch0 to 3 Transfer finish
• External 0 to 7 • Serial ch0 to 3 Transmission • Serial ch0 to 3 Reception • KI $\overline{\text{Pin}}$ (OR)
• A/D Conversion finish

Timer Counter

Timer Counter 0 : 8-Bit × 1 (Prescalers)
Clock Source .. .. 1/2 of System Clock, Timer Counter 1 Output

Timer Counter 1 : 8-Bit × 1 (Prescalers)
Clock Source 1/2 of System Clock, Timer Counter 0 Output

Timer Counter 2, 3 : 8-Bit × 1 (UART Baud Rate Generator)
Clock Source . . . 1/2 of System Clock, External Clock Input, Timer Counter 0 Output

Timer Counter 4 : 8-Bit × 1 (Timer Output, A/D Conversion Start up)
Clock Source . 1/2 of System Clock, External Clock Input, Timer Counter 0 Output, Timer Counter 1 Output
Interrupt Source Underflow of Timer Counter 4

Timer Counter 5, 9 : 8-Bit × 1 (UART Baud Rate Generator)
Clock Source 1/2 of System Clock, Timer Counter 0 Output, Timer Counter 1 Output
Interrupt Source Underflow of Timer Counter 5, 9

Timer Counter 6, 10, 11 : 8-Bit × 1 (Timer Output)
Clock Source 1/2 of System Clock, External Clock Input, Timer Counter 0 Output
Interrupt Source Underflow of Timer Counter 6, 10, 11

Timer Counter 7 : 8-Bit × 1 (Timer Output)
Clock Source . . 1/2 of System Clock, External Clock Input, Timer Counter 0 Output
Interrupt Source Underflow of Timer Counter 7

Timer Counter 8 : 8-Bit × 1 (Timer Output)
Clock Source 1/2 of System Clock, External Clock Input, Timer Counter 0 Output, Timer Counter 1 Output
Interrupt Source Underflow of Timer Counter 8

Timer Counter 12 : 8-Bit × 1 (Timer Output)
Clock Source .. . 1/2 of System Clock, External Clock Input with Edge, Timer Counter 0 Output, Timer Counter 1 Output
Interrupt Source . .Underflow of Timer Counter 12

Timer Counter 13 : 8-Bit × 1 (Timer Output)
Clock Source . .. 1/2 of System Clock, Timer Counter 0 Output, Timer Counter 1 Output
Interrupt Source Underflow of Timer Counter 13

Timer Counter 14 : 8-Bit × 1 (Timer Output)
Clock Source . . 1/2 of System Clock, External Clock Input with Edge, Timer Counter 0 Output
Interrupt Source . .Underflow of Timer Counter 14

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Timer Counter (Continue)

Timer Counter 15 : 8-Bit × 1 (Timer Output)

Clock Source — 1/2 of System Clock, External Clock Input with Edge, Timer Counter 0 Output

Interrupt Source — Underflow of Timer Counter 15

(Connectable) — Timer Counter 0 to 3, 4 to 7, 8 to 11, 12 to 15

Timer Counter 16, 17 : 16-Bit × 1 (Timer Output, Event Count, Input Capture, Output Compare, PWM Output, 2-Phase Encorder Input)

Clock Source — 1/2 of System Clock, External Clock Input (with Edge, Timer Counter 17 only), Timer Counter 0 Output, Timer Counter 1 Output (Timer Counter 16 only)

Interrupt Source — Coincidence with Compare Capture A or at Capture
Coincidence with Compare Capture B or at Capture
Underflow of Timer Counter 16, 17

Timer Counter 18, 19, 20: 16-Bit × 1 (Timer Output, Event Count, Input Capture, Output Compare, PWM Output, 2-Phase Encorder Input)

Clock Source — 1/2 of System Clock, External Clock Input, Timer Counter 0 Output, Timer Counter 1 Output

Interrupt Source — Coincidence with Compare Capture A or at Capture
Coincidence with Compare Capture B or at Capture
Underflow of Timer Counter 18, 19, 20

Timer Counter 21 : 24-Bit × 1 (Servo Control)

Clock Source — 1/2 of System Clock, Timer Counter 1 Output

Interrupt Source — When capturing to Capture A
When capturing to Capture B
When capturing to Capture D
When coinciding to Compare E
When coinciding to Compare F

Serial Interface

Serial 0, 1 : 8-Bit × 1 (Transfer direction of MSB / LSB selectable, Transmission / Reception of 7, 8-Bit length)

Clock Source — 1/8 of Timer Counter 2, 1/8, 1/2 of Timer Counter 5, External Clock

Serial 2, 3 : 8-Bit × 1 (Transfer direction of MSB / LSB selectable, Transmission / Reception of 7, 8-Bit length)

Clock Source — 1/8 of Timer Counter 3, 1/8, 1/2 of Timer Counter 9, External Clock

UART × 4 (Common use with Serial 0 to 3)

I^2C × 2 (Common use with Serial 1, 3, Single Master)

I/O Pins

I/O	100	• Common use 56 (Address Data Separate 8-Bit Mode) • Common use 73 (Address Data Multiplex 8-Bit Mode)
Input	8	• Common use 8

See the next page for support tool, peripheral function, Pin Assignment and electrical characteristics.

A/D Inputs	10-Bit × 12ch (Maximum input is 16) (with S/H)
PWM	16-Bit × 5ch (Timer Counter 16 to 20)
ICR	16-Bit × 5ch, 24-Bit × 1ch (Timer Counter 16 to 21)
OCR	16-Bit × 5ch, 24-Bit × 1ch (Timer Counter 16 to 21)
Notes	Address / Data Multiplex Bus Interface, Address / Data Separate Bus Interface, 8-Bit / 16-Bit Bus Width selectable, DRAM Refresh Controller built-in
Package	LQFP128-P-1818C

Electrical Characteristics

A/D Characteristics

Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
Non-linear Error		10-Bit			±4	LSB
A/D Conversion Time		at 40 MHz	2 8			µs
Analog Input Voltage	VIA		VSS		VDD	V

(Ta = 25 °C, VDD = AVDD = 3.3 V, VSS = AVSS = 0 V)

Supply Current

Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
Operating Supply Current	IDDopr	VI = VDD or VSS, Output release f = 40 MHz, VDD = 3 3 V			50	mA
Supply Current at STOP	IDDS	Pin with pull-up resistor is open All other input pins and Hi-Z state input/output pins are simultaneously applied VDD or VSS level			150	µA
Supply Current at HALT	IDDH	f = 40 MHz, VDD = 3 3 V Output release			25	mA

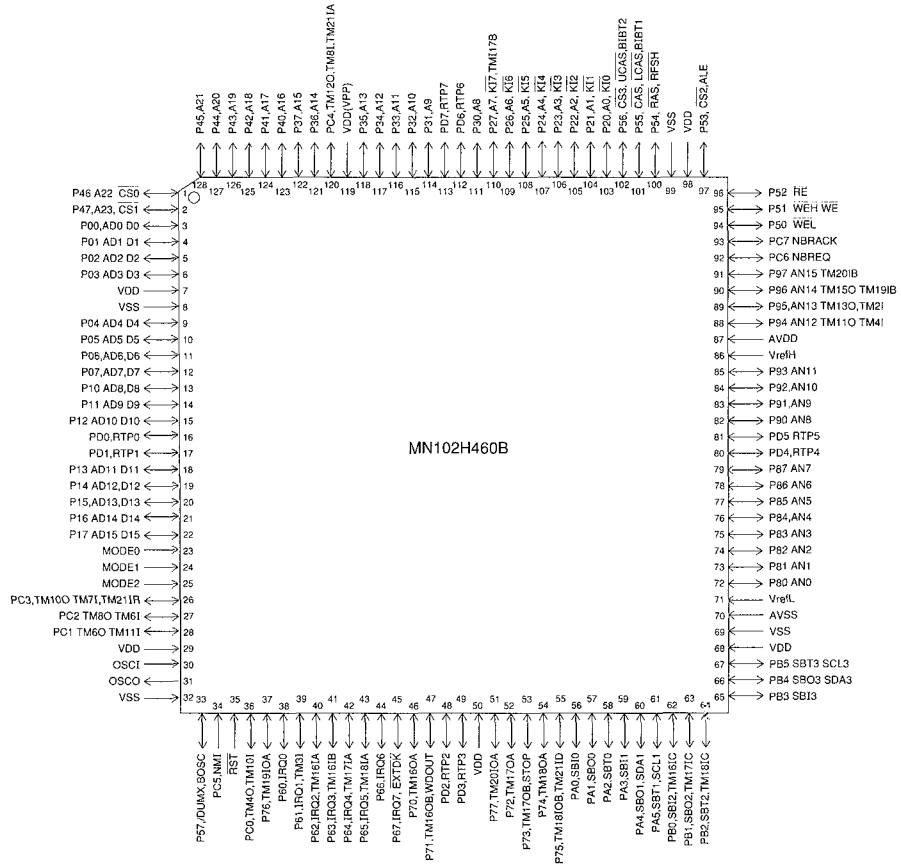
(Ta = –20 °C to +70 °C, VDD = AVVD = 3.3 V, VSS = AVSS = 0 V)

Support Tool

In Circuit Emulator

PX-ICE102H460B

Pin Assignment



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