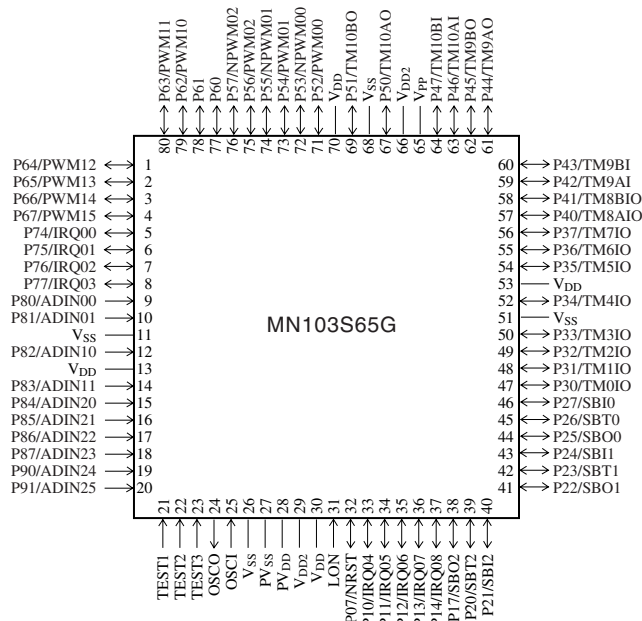


MN103S65G

| | | | |
|---|--------------|----|--|
| Type | | | MN103S65G |
| Internal ROM | | | 128 K-byte |
| Internal RAM | | | 4 K-byte SRAM |
| Package | | | LQFP080-P-1414A *Lead-free |
| Minimum Instruction Execution Time | | | 25 ns (at 4.3 V to 5.5 V, 10 MHz internal regulator used) |
| | | | 25 ns (at 3.0 V to 3.6 V, 10 MHz) |
| | | | *at internal 4 times oscillation used) |
| Interrupts | | | <ul style="list-style-type: none"> • 9 external interrupts • 42 internal interrupts (watch dog timer, timer, serial I/F, PWM, A/D, system error) |
| Timer Counter | | | Eight 8-bit timers Interval timer, Event counter, Cascading |
| | | | Four 16-bit timers Interval timer, Event counter, PWM output, Double buffer |
| | | | Watch dog timer |
| | | | |
| Serial Interface | | | UART (full duplex) / synchronous interfaces selective: 3 |
| I/O Pins | I/O | 50 | exclusive: 2, selective: 48 |
| | Input | 10 | selective: 10 |
| A/D Inputs | | | 10-bits, 2 inputs: 2, 6 inputs: 1 Minimum conversion time 1.5us |
| PWM | | | 3-phase PWM output 16-bit counter, triangular waveform or jigsaw waveform dead time setup, Double buffer |
| Electrical Characteristics | | | T.B.D. |

Pin Assignment



LQFP080-P-1414A *Lead-free

Support Tool

| | | |
|-----------------------------------|------------------------------------|---|
| In-circuit Emulator | PX-ICE-103S52 | |
| On board Debugger | PX-ODB103S-DO | |
| Flash Memory Built-in Type | Type | MN103SF65G |
| | ROM | 128 K-byte |
| | RAM | 4 K-byte SRAM |
| | Minimum instruction execution time | 25 ns (at 4.3 V to 5.5 V, 10 MHz internal regulator used) |
| | | 25 ns (at 3.0 V to 3.6 V, 10 MHz) |
| | Package | LQFP080-P-1414A *Lead-free |

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