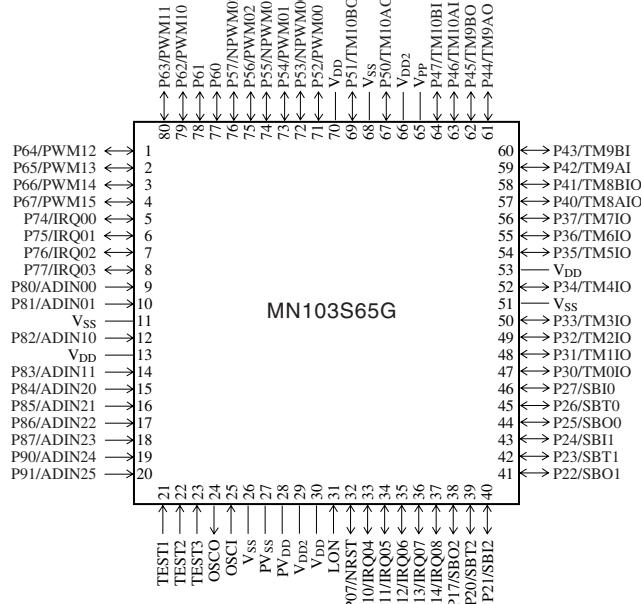


□ MN103S65G

| | | | |
|---|---|----|-----------------------------|
| Type | MN103S65G | | |
| Internal ROM | 128 K-byte | | |
| Internal RAM | 4 K-byte SRAM | | |
| Package | LQFP080-P-1414A <small>*Lead-free</small> | | |
| 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 | <table> <tr> <td>Type</td> <td>MN103SF65G</td> </tr> <tr> <td>ROM</td> <td>128 K-byte</td> </tr> <tr> <td>RAM</td> <td>4 K-byte SRAM</td> </tr> <tr> <td>Minimum instruction execution time</td> <td>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)</td> </tr> <tr> <td>Package</td> <td>LQFP080-P-1414A *Lead-free</td> </tr> </table> | 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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| Package | LQFP080-P-1414A *Lead-free | | | | | | | | | | |

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