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| 32bit | TLCS-900 Family TLCS-900/H1 Series Under Development TMP92FD23AFG/DFG FLASH | 100pin |
|--------------|--|---------------|

32-bit microcontroller with large capacity Flash memory and various serial interfaces

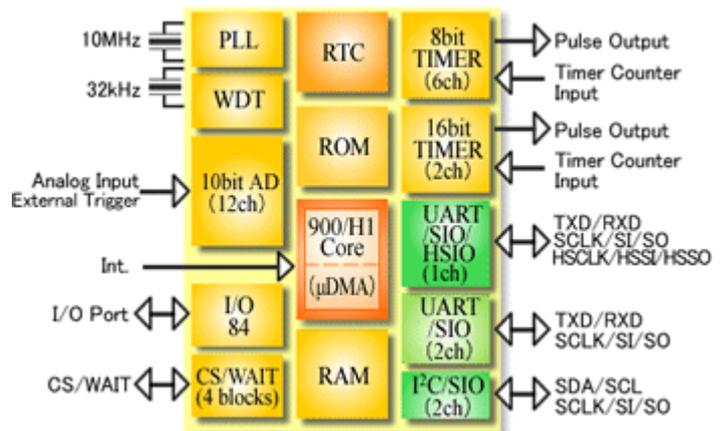
Features

● **TLCS-900/H1 CPU Core**

- Operating voltage: 3.0 to 3.6 V
- Minimum instruction execution time: 50 ns (at 20 MHz/ 3.0 to 3.6 V internal)
- Internal ROM: 512 Kbytes
- Internal RAM: 32 Kbytes

● **Built-in Functions**

- 10-bit AD converter : 12 channels
- UART/SIO/HSIO : 1 channel
- UART /SIO : 2 channels
- I²C/SIO : 2 channels
- 8-bit timer : 6 channels
- 16-bit timer : 2 channels
- Key-on wake-up : 8 channels
- Program patch logic : 8 banks



● **Product Lineup**

** : Under development

| Part number | ROM | RAM |
|--------------------|------------|-----------|
| TMP92CD23AFG/DFG** | 512 Kbytes | 32 Kbytes |
| TMP92CY23FG/DFG | 256 Kbytes | 16 Kbytes |

› For further information about Toshiba microcomputers, please visit <http://www.semicon.toshiba.co.jp/eng/prd/micro/index.html>.

Development Systems

● **Software Products**

| Toshiba Integrated Development Environment (TIDE) | | Real-Time OS(μITRON 3.0) |
|---|------------------------------------|--|
| C Compiler | Integrated Development Environment | |
| SW96CN0-ZCC: 1 license | SW96MN0-ZCC: 1 license | SW96RN2-ZCC: Object code can be freely copied |
| SW96CN3-ZCC: 10 licenses | SW96MN3-ZCC: 10 licenses | SW96RNC-ZCC: Object code can be freely copied. With source code. |

● **Hardware Products**

** : Under development

| Part number | Test tool | |
|-----------------|---------------------|--------------------|
| | Controller | Emulation pod |
| TMP92FD23AFG** | BM1040R0A/BM1055R0C | BM92FD23AF0A-M15** |
| TMP92FD23ADFG** | | |

› As to hardware products, additional accessories are also needed.

› For further information about Toshiba microcomputer development systems, please visit http://www.semicon.toshiba.co.jp/mctool/index_e.htm.

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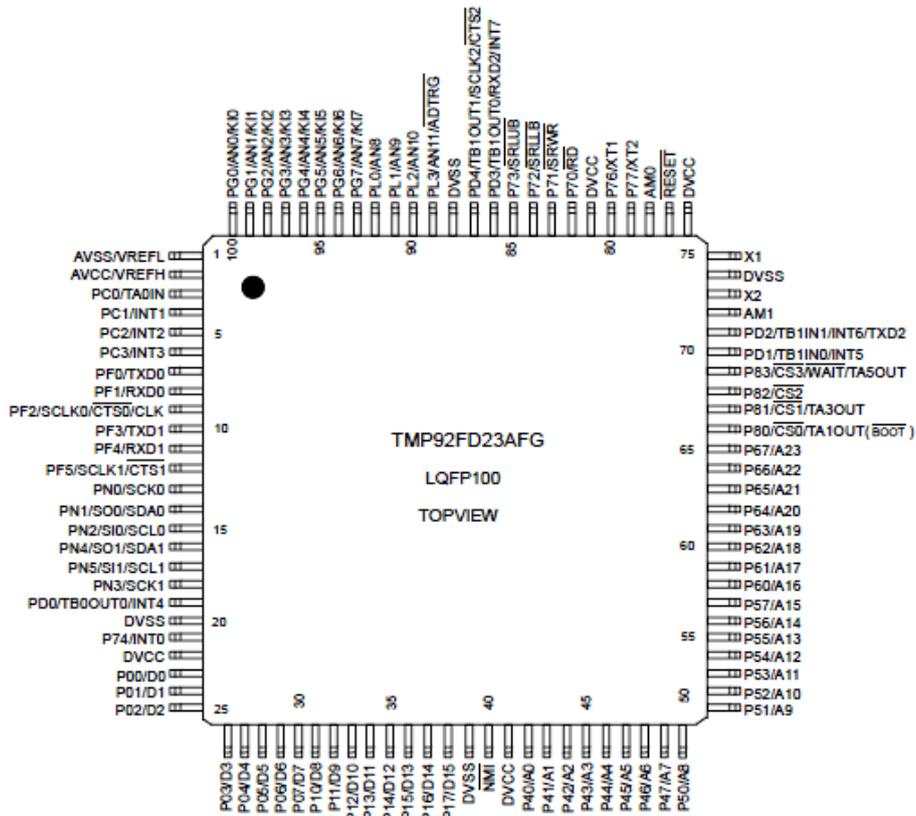
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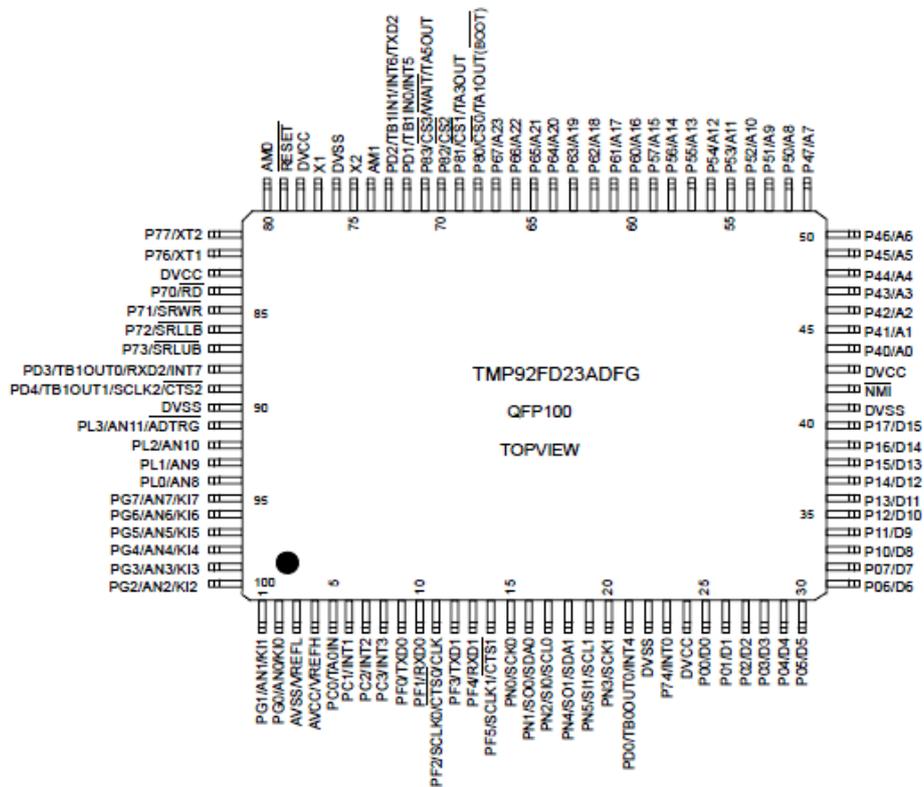
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Package Information

Pin Assignments



Package name FG:P-LQFP100-1414-0.50F



Package Name DFG:P-QFP100-1420-0.65A