e.g) **STM32F103R6T7**

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| --- | --- | --- |
| **STM** | Family | Family of 32-bit MCUs with ARM Cortex-M core |
| **F** | Type | F – Mainstream, L - Low Power, H - High Performance, W – Wireless |
| **1** | Core | 0 – M0, 1 – M3, 2 – M3, 3 – M4, 4 – M4, 7 – M7 |
| **03** | Line | Speed, peripherals, silicon process, |
| **R** | Number of Pins | F – 20, G – 28, K – 32, T – 36, S – 44, C – 48, R – 64, 66, V – 100, Z – 144, I – 176 |
| **6** | Flash size | 4 - 16, 6 - 32, 8 - 64, B - 128, C - 256, D - 384, E - 512, F - 768, G - 1024, H - 1536, I - 2048 KBytes |
| **T** | Package | P - TSOOP, H - BGA, U - VFQFPN, T - LQFP, Y - WLCSP |
| **7** | Temperature range | 6 - -40..85°C, 7 - -40..105°C |

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| **Devices** | **Microcontrollers** | **Flash Memory density range** |
| Low density Value Line (STM32F10X\_LD\_VL) | STM32F100xx | 16 – 32 KBytes |
| Low Density(STM32F10X\_LD) | STM32F101xx, STM32F102xx, STM32F103xx | 16 – 32 KBytes |
| Medium density Value Line(STM32F10X\_MD\_VL) | STM32F100xx | 64 – 128 KBytes |
| Medium Density(STM32F10X\_MD) | STM32F101xx, STM32F102xx, STM32F103xx | 64 – 128 KBytes |
| High density Value Line(STM32F10X\_HD\_VL) | STM32F100xx | 256 – 512 KBytes |
| High Density(STM32F10X\_HD) | STM32F101xx, STM32F103xx | 256 – 512 KBytes |
| XL-Density(STM32F10X\_XL) | STM32F101xx, STM32F103xx | 512 – 1024 KBytes |
| Connectivity Line(STM32F10X\_CL) | STM32F105xx, STM32F107xx | - |