NEC Empowered by Innovation

Part Number: UPD78F0511GB-UES-A

Functions	44-pin/48-pin 8-bit single-chip microcontroller (78K0/KC2)
Applications	General electronics, household electronic appliances, automotive electronics, and other sub-microcontrollers
Features	Embedded system-peripheral functions enables reduction of system cost -Power supply monitoring function: Power-on-clear circuit, low-voltage detector -Internal 8 MHz (TYP.) high-speed oscillator -Enhanced system reliability Window watchdog timer incorporated -Reinforced communication function UART that supports LIN bus and IIC -EEPROM emulation function Single-power-supply flash memory that can perform self programming
Performances	Flash memory: 16 KB, RAM: 768 bytes, I/O port: 37 (48-pin version : 41) Serial I/O: UART/CSI: 1 channel A/D converter: 10 bits x 8 channels POC detection voltage: 1.5 V +/-0.2 V Timer: 8 bits x 4 channels, 16 bits x 1 channel Minimum instruction execution time: 0.1 us @ 4 V UART: 1 channel, IIC: 1 channel Operating voltage range: 1.8 to 5.5 V