

NEC**SINGLE-CHIP MICROCOMPUTERS***T-49-19-08***8-Bit, Single-Chip NMOS/CMOS Microcomputers (cont)**

Device, μPD	Features	Clock (MHz)	Supply Voltage (V)	ROM (X8)	RAM (X8)	I/O	* Package	Pins
8214	CMOS; A/D converter; advanced peripherals	12	4.5 to 5.5	16K	512	54	SDIP QUIP Miniflat PLCC	64 64 74 68
78P214	CMOS; A/D converter; advanced peripherals	12	4.5 to 5.5	16K OTPROM	512	54	SDIP QUIP Miniflat PLCC	64 64 74 68
				16K UVEPROM	512	54	Shrink cerdip Ceramic QUIP	64 64
78220	CMOS; analog comparator; large I/O	12	4.5 to 5.5	External	640	71	PLCC Miniflat	84 94
78224	CMOS; analog comparator; large I/O	12	4.5 to 5.5	16K	640	71	PLCC Miniflat	84 94
78P224	CMOS; analog comparator; large I/O	12	4.5 to 5.5	16K OTPROM	640	71	PLCC Miniflat	84 94
78233 *	CMOS; real-time outputs; A/D and D/A converters	12	4.5 to 5.5	External	640	54	Miniflat Miniflat PLCC	80 94 84
78234 *	CMOS; real-time outputs; A/D and D/A converters	12	4.5 to 5.5	16K	640	54	Miniflat Miniflat PLCC	80 94 84
78P234 *	CMOS; real-time outputs; A/D and D/A converters	12	4.5 to 5.5	16K OTPROM	640	54	Miniflat Miniflat PLCC	80 94 84

16-Bit, Single-Chip CMOS Microcomputers

Device, μPD	Features	Clock (MHz)	Supply Voltage (V)	ROM (X8)	RAM (X8)	I/O	* Package	Pins
78310A	Real-time motor control	12	4.5 to 5.5	External	256	48	SDIP QUIP Miniflat PLCC	64 64 64 68
78312A	Real-time motor control	12	4.5 to 5.5	8K	256	48	SDIP QUIP Miniflat PLCC	64 64 64 68
78P312A	Real-time motor control	12	4.5 to 5.5	8K UVEPROM	256	48	Shrink cerdip Ceramic QUIP	64 64
				8K OTPROM	256	48	SDIP QUIP PLCC	64 64 68
78320	High-end; advanced analog and digital peripherals	16	4.5 to 5.5	External	640	55	Miniflat PLCC	64 68
78322	High-end; advanced analog and digital peripherals	16	4.5 to 5.5	16K	640	55	Miniflat PLCC	64 68
78P322	High-end; advanced analog and digital peripherals	16	4.5 to 5.5	16K OTPROM	640	55	PLCC	68
71P301	Port and memory extender used with 7832X microcomputer family; UVEPROM or OTPROM	-	4.5 to 5.5	16K	1K	16	PLCC Miniflat Ceramic QUIP	44 64 64