The "terrible" 3 cent microcontroller

MCU	PTB150CSE	PMS150C-S08	BJ8P509F	PFS154-S08	MDT10P509(A)	HR7P153P45SA	PFS173-S08	HT68F001
Manufacturer	Puolop China www.puolop.com	Padauk Taiwan www.padauk.com.tw	Bojuxing Industrial China www.bjxmcu.com	Padauk Taiwan www.padauk.com.tw	Yspring Tech / MDT China www.yspringtech.com	Eastsoft Micro China www.essemi.com	Padauk Taiwan www.padauk.com.tw	Holtek Taiwan www.holtek.com
Package	SOP8-150mil	SOP8-150mil	SOP8-150mil	SOP8-150mil	SOP8-150mil	SOP8-150mil	SOP8-150mil	SOP8-150mil
Price (100pc)	0.0315 USD/pc	0.0334 USD/pc	0.0466 USD/pc	0.0692 USD/pc	0.0795 USD/pc	0.0811 USD/pc	0.0859 USD/pc	0.0875 USD/pc
CPU Architecture	PDK13 79 Instructions Stack in RAM Single cycle Interrupts: Yes	PDK13 79 Instructions Stack in RAM Single cycle Interrupts: Yes	BJ13 (PIC) 42 Instructions 5 level HW stack Single cycle? Interrupts: Yes	PDK14 82 Instructions Stack in RAM Single cycle Interrupts: Yes	PIC12 36 Instructions 2 level HW stack 4 clocks/instr. Interrupts: No	HR7P RISC 79 Instructions 8 level HW stack 2 clocks/instr.? Interrupts: Yes	PDK15 88 Instructions Stack in RAM Single cycle Interrupts: Yes	Holtek12 (PIC12) 63 Instructions 2 level HW stack 4 clocks/instr. Interrupts: Yes
ROM	1k x 13 bit OTP	1k x 13 bit OTP	1k x 13 bit OTP	2k x 14 bit Flash	1k x 12 bit OTP	2k x 16 bit OTP	3k x 15 bit Flash	0.5k x 12 bit Flash
RAM	64 Bytes	64 Bytes	49 Bytes	128 Bytes	41 Bytes	64 Bytes	256 Bytes	16 Bytes
Periphery	6 GPIO 16 bit timer 1x8 bit timer/PWM Analog comparator	6 GPIO 16 bit timer 1x8 bit timer/PWM Analog comparator	6 GPIO 1x8 bit timer	6 GPIO 16 bit timer 2x8 bit timer/PWM 3x11 bit PWM Analog comparator	6 GPIO 1x8 bit timer	6 GPIO 2x8 bit timer/PWM 1x12bit ADC	6 GPIO 16 bit timer 2x8 bit timer/PWM 3x11 bit PWM Analog comparator 1x8bit ADC	6 GPIO 1x8 bit timer
	Brownout reset Watchdog timer	Brownout reset Watchdog timer	Brownout reset Watchdog timer	Brownout reset Watchdog timer	Brownout reset Watchdog timer	Brownout reset Watchdog timer	Brownout reset Watchdog timer	Brownout reset Watchdog timer
Clock	16 MHz internal 62 kHz internal	16 MHz internal 62 kHz internal	8 MHz internal External RC External XTAL	16 MHz internal 70 kHz internal External XTAL	8 MHz internal	16 MHz internal 36 kHz internal External XTAL	16 MHz internal 93 kHz internal External XTAL	- 32 kHz internal External XTAL
Programming	4+2 wire HV (12V)	4+2 wire HV (12V)	?	3+2 wire HV (8V)	?	3+2 wire HV (8.5V)	3+2 wire HV (8V)	2+2 wire ICP
Vendor IDE	?	Padauk Dev. Studio (ASM, Mini-C)	Bojuxing IDE (ASM)	Padauk Dev. Studio (ASM, Mini-C)	MDT-IDE, Yspring writer	?	Padauk Dev. Studio (ASM, Mini-C)	Holtek HT-IDE3000 (ASM)
OSS Toolchain	Tentative, SDCC >=3.9.0	Tentative, SDCC >=3.9.0	No	Yes, SDCC >=3.9.0	Yes, GPUTILS (PIC tools)	No	Yes, SDCC >=3.9.0	No
Notes	Website and datasheet in Chinese		Website in chinese, but english datasheet		PIC12C509 clone, horrible datasheet	Website and datasheet in chinese		Ultra low power

https://cpldcpu.wordpress.com/2019/08/12/the-terrible-3-cent-mcu/