

CEIBO

Development Tools of Choice



Philips / NXP Microcontrollers supported by Ceibo

DS-51 - In-Circuit Emulator

μC	Probe	Header	Special adapter	fmax	Voltage	Special Features
8xC51/80C31/2	P-C51	H-51-40D	44-PLCC, 44-QFP	33 MHz	5V	Philips Hooks
	P-C51LV	H-51-44P	40-DIP, 44-QFP	33 MHz	3.3V/5V	6/12 Clocks
	P-C32	H-51-40D	44-PLCC, 44-QFP	33 MHz	5V	Any ROMless
8xC5x	P-C51	H-51-40D	44-PLCC, 44-QFP	33 MHz	5V	Philips Hooks
	P-C51LV	H-51-44P	40-DIP, 44-QFP	33 MHz	3.3V/5V	6/12 Clocks
8xC51Fx	P-C51	H-51-40D	44-PLCC, 44-QFP	33 MHz	5V	Philips Hooks
	P-C51LV	H-51-44P	40-DIP, 44-QFP	33 MHz	3.3V/5V	6/12 Clocks
8xC51Rx+	P-C51	H-51-40D	44-PLCC, 44-QFP	33 MHz	5V	Philips Hooks
	P-C51LV	H-51-44P	40-DIP, 44-QFP	33 MHz	3.3V/5V	6/12 Clocks
89C51RB2/C2/D2	P-C51	H-51-40D	44-PLCC, 44-QFP	20/33 MHz	5V	Philips Hooks
	P-C51LV	H-51-44P	40-DIP, 44-QFP	20/33 MHz	3.3V/5V	6/12 Clocks
8xC451/3	P-C451	H-451-68P		20 MHz	5V	Philips Hooks
8xC504/8	P-C51	H-51-40D	44-PLCC, 44-QFP	24 MHz	5V	Philips Hooks
	P-C51LV	H-51-44P	40-DIP, 44-QFP	24 MHz	3.3V/5V	6/12 Clocks
8xC524/8	P-C51	H-51-40D	44-PLCC, 44-QFP	24 MHz	5V	Philips Hooks

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	P-C51LV	H-51-44P	40-DIP, 44-QFP	24 MHz	3.3V/5V	6/12 Clocks
8xC550	P-C51	H-51-40D	44-PLCC, 44-QFP	16 MHz	5V	DIP Support
	P-C550	H-550-44P	44-QFP	16 MHz	5V	PLCC Support
8xC552	P-C552	H-552-68P	80-QFP	24 MHz	5V	Philips Hooks
8xC554	P-C554	H-552-68P	80-QFP	16 MHz	5V	Philips Hooks
8xC554LQFP64	P-C554	H-552-64Q		16 MHz	3.3V/5V	6/12 Clocks
8xC557	P-C558	H-558-80R		16 MHz	5V	Philips Hooks
8xCE558/9	P-C558	H-558-80R		20 MHz	5V	Philips Hooks
8xCE560	P-C558	H-558-80R		20 MHz	5V	Philips Hooks
8xC575	P-C575	H-51-40D	44-PLCC-44QFP	16 MHz	5V	Philips Hooks
8xCL580 (Obsolete)	P-C580	H-580-56V		16 MHz	1.8-6V	Low Voltage
8xC591	P-C591	H-591-44P	44-QFP	12 MHz	3.3V/5V	6/12 Clocks
8xC592	P-C592	H-592-68P		16 MHz	5V	Philips Hooks
8xC598	P-C598	H-598-80R		16 MHz	5V	Philips Hooks
8xC652/4	P-C51	H-51-40D	44-PLCC, 44-QFP	24 MHz	5V	Philips Hooks
	P-C51LV	H-51-44P	40-DIP, 44-QFP	24 MHz	3.3V/5V	6/12 Clocks
89C66x	P-C51LV	H-51-44P	40-DIP, 44-QFP	20/33 MHz	3.3V/5V	6/12 Clocks
8xC748/9	P-C752	H-752-28D	24-DIP, 28-PLCC	16 MHz	5V	Philips Hooks
8xC750/1/2	P-C752	H-752-28D	24-DIP, 28-PLCC	16 MHz	5V	Philips Hooks
87LPC76x	(See EB-76X)			20 MHz	3.3V/5V	
8xC055	P-C055	H-055-42S	42-SDIP	16 MHz	5V	Philips Hooks

EB-51 - Low Cost Emulator

μ C	Daughter Board	Header	Special adapter	fmax	Voltage	Special Features
8xC51/80C31/2		40-DIP	44-PLCC, 44-QFP	33 MHz	3.3V/5V	Philips Hooks
8xC5x		40-DIP	44-PLCC, 44-QFP	33 MHz	3.3V/5V	Philips Hooks
8xC51Fx		40-DIP	44-PLCC, 44-QFP	33 MHz	3.3V/5V	Philips Hooks

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8xC51Rx+		40-DIP	44-PLCC, 44-QFP	33 MHz	3.3V/5V	Philips Hooks
8xC504/8		40-DIP	44-PLCC, 44-QFP	24 MHz	3.3V/5V	Philips Hooks
8xC524/8		40-DIP	44-PLCC, 44-QFP	24 MHz	3.3V/5V	Philips Hooks
8xC552/4	B-552EB	40-DIP	44-PLCC, 44-QFP	24 MHz	3.3V/5V	Philips Hooks
8xC652/4		40-DIP	44-PLCC, 44-QFP	24 MHz	3.3V/5V	Philips Hooks

EB-51X2 - Low Cost Emulator

μ C	Probe	Header	Special adapter	fmax	Voltage	Special Features
8xC51/Fx/Rx+	EB2-Rx2	44-PLCC	40-DIP, 44-QFP	20/33 MHz	3.3/5V	12 Clocks
89C51RB2/C2/D2	EB2-Rx2	44-PLCC	40-DIP, 44-QFP	20/33 MHz	3.3/5V	6/12 Clocks
8xC552/4	EB2-554	68-PLCC	80-QFP	20/33 MHz	3.3/5V	6/12 Clocks
80C591	EB2-591	44-PLCC	44-QFP	16 MHz	3.3/5V	6/12 Clocks
89C66x	EB2-Rx2	44-PLCC	44-QFP	20/33 MHz	3.3/5V	6/12 Clocks

DS-750 - Development Tool

μ C	Header	Special adapter	fmax	Voltage	Limitations	Special Features
87C748					Programmer Only	
87C749					Programmer Only	
87C750	24-SDIP	28-PLCC	40 MHz	5V	Reserved resources	40MHz, Programmer
87C751					Programmer Only	
87C752					Programmer Only	

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EB-76X - Low Cost Emulator

μ C	Header	Special Adapter	fmax	Voltage	Special Features
P87LPC760	20-DIP	14-DIP, 14-SO	20 MHz	3.3/5V	Bondout
P87LPC761	20-DIP	14-DIP, 14-SO	20 MHz	3.3/5V	Bondout
P87LPC762	20-DIP	20-SO	20 MHz	3.3/5V	Bondout
P87LPC764	20-DIP	20-SO	20 MHz	3.3/5V	Bondout
P87LPC767	20-DIP	20-SO	20 MHz	3.3/5V	Bondout
P87LPC768	20-DIP	20-SO	20 MHz	3.3/5V	Bondout
P87LPC769	20-DIP	20-SO	20 MHz	3.3/5V	Bondout

DB-51 - Development Board

μ C	Limitations	Special Features
80C31/2	Romless - Resources	Prototyping Board - Debugger
8xC51/2/4/8	Romless - Resources	Prototyping Board - Debugger
83C51FAFB/FC	Romless - Resources	Prototyping Board - Debugger
8xC51Rx+	Romless - Resources	Prototyping Board - Debugger
89C51RB2/C2/D2	Romless - Resources	Prototyping Board - Debugger
8xC504/8	Romless - Resources	Prototyping Board - Debugger
8xC524/8	Romless - Resources	Prototyping Board - Debugger
8xC550	Romless - Resources	Prototyping Board - Debugger
8xC552/4	Romless - Resources	Prototyping Board - Debugger
80C562	Romless - Resources	Prototyping Board - Debugger
8xC562	Romless - Resources	Prototyping Board - Debugger
8xC575	Romless - Resources	Prototyping Board - Debugger
8xC652/4	Romless - Resources	Prototyping Board - Debugger
8xC66x	Romless - Resources	Prototyping Board - Debugger

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EB-XAG3 - Low Cost Emulator

μ C	Header	fmax	Voltage	Limitations	Special Features
XAG37	44-PLCC	30 MHz	3.3V/5V	64 KByte	C-Compiler/ASM

EB-XAG49 - Low Cost Emulator

μ C	Header	fmax	Voltage	Limitations	Special Features
XAG49	44-PLCC	30 MHz	3.3V/5V	64 KByte	C-Compiler/ASM

EB-XAS3 - Low Cost Emulator

μ C	Header	fmax	Voltage	Limitations	Special Features
XAS37	68-PLCC	30 MHz	3.3V/5V	64 KByte	C-Compiler/ASM

DS-XA - In-Circuit-Emulator

μ C	Probe	Header	fmax	Voltage	Special Features
XAC37	Probe C3	44-PLCC	30 MHz	3.3V/5V	New Design, 2MByte
XAS37	Probe S3	68-PLCC	30 MHz	3.3V/5V	New Design, 2MByte
XAG37	Probe G3	44-PLCC	30 MHz	3.3V/5V	New Design, 2MByte
XAG49	Probe G49	44-PLCC	30 MHz	3.3V/5V	New Design, 2MByte

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FE-900 - Emulator and Programmer

μC	Adapter	Operating Frequency	Voltage	Special Features
P89LPC901FN	DIP8	18MHz	3.3V	Bondout
P89LPC902FD	SO8	7.328MHz	3.3V	Bondout
P89LPC902FN	DIP8	7.328MHz	3.3V	Bondout
P89LPC903FD	SO8	7.328MHz	3.3V	Bondout
P89LPC9107FDH	TSSOP14	18MHz	3.3V	Bondout
P89LPC912FDH	TSSOP14	12MHz	3.3V	Bondout
P89LPC912HDH	TSSOP14	12MHz	3.3V	Bondout
P89LPC913FDH	TSSOP14	12MHz	3.3V	Bondout
P89LPC915FDH	TSSOP14	IRC	3.3V	Bondout
P89LPC916FDH	TSSOP16	IRC	3.3V	Bondout
P89LPC917FDH	TSSOP16	IRC	3.3V	Bondout
P89LPC920FDH	TSSOP20	12MHz	3.3V	Bondout
P89LPC921FDH	TSSOP20	12MHz	3.3V	Bondout
P89LPC922FDH	TSSOP20	12MHz	3.3V	Bondout
P89LPC922FN	DIP20	12MHz	3.3V	Bondout
P89LPC924FDH	TSSOP20	12MHz	3.3V	Bondout
P89LPC925FDH	TSSOP20	12MHz	3.3V	Bondout
P89LPC930FDH	TSSOP28	12MHz	3.3V	Bondout
P89LPC931FDH	TSSOP28	12MHz	3.3V	Bondout
P89LPC932A1FA	PLCC28	12MHz	3.3V	Bondout
P89LPC932A1FDH	TSSOP28	12MHz	3.3V	Bondout
P89LPC933FDH	TSSOP28	12MHz	3.3V	Bondout
P89LPC934FDH	TSSOP28	12MHz	3.3V	Bondout
P89LPC935FA	PLCC28	12MHz	3.3V	Bondout
P89LPC935FDH	TSSOP28	12MHz	3.3V	Bondout
P89LPC936FA	PLCC28	12MHz	3.3V	Bondout
P89LPC936FDH	TSSOP28	12MHz	3.3V	Bondout
P89LPC9381FA	PLCC28	18MHz	3.3V	Bondout
P89LPC9381FDH	TSSOP28	18MHz	3.3V	Bondout
P89LPC938FA	PLCC28	18MHz	3.3V	Bondout
P89LPC938FDH	TSSOP28	18MHz	3.3V	Bondout

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C/C++ XA - Compiler and Assembler

μ C	
XAS37	XAG37
XAC37	XAG49

DS-48 - In-Circuit Emulator

μ C	Probe	Header	Special adapter	fmax	Voltage	Special Features
PCD3315A	C84	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3343A	C84	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3344A	C3349	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3348A	C84	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3349A	C3349	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3350A	C3350	44-QFP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3351A	C3354	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3352A	C3354	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3353A	C3354	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3354A	C3354	44-QFP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3745A	C3745	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3755A	C3354	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCD3756A	C3354	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCF84C00B	C84	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCF84C21A	C84	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCF84C41A	C84	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range
PCF84C81A	C84	28-DIP	PCU-48	16MHz	1.8V/6V	Wide voltage range

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MP-51 - Programmer

μC	Package	Adapters
87C51	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
87C51FA/FB/FC	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
87C51RA+/RB+/RC+/RD+	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
89C51RA+/RB+/RC+/RD+	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
8xC52/4/8	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
87CL134	42-SDIP, 44-QFP	AD87CL134D
87C451	64-DIP, 68-PLCC	AD87C451D, AD87C451P
87C453	68-PLCC	AD87C451P
87C504/8	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
87C524/8	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
87C550	40-DIP, 44-PLCC	AD87C51D, AD87C550P
87C552/4	68-PLCC	AD87C552P
87C554L	64-LQFP	AD87C554Q
89CE558/60	80-QFP	AD87C598Q
87C575	40-DIP	AD87C575D
87C576	40-DIP	AD87C576D
87C591	44-PLCC	AD87C51P
87C592	68-PLCC	AD87C592P
87CE598	80-QFP	AD87C598Q
87C652/4	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
87C66x	40-DIP, 44-PLCC, 44-QFP	AD87C51D, AD87C51P, AD87C51Q
87C748	24-SDIP, 28-PLCC	AD87C751D, AD87C751P
87C749	28-DIP, 28-PLCC	AD87C752D, AD87C752P
87C750/1	24-SDIP, 28-PLCC	AD87C751D, AD87C751P
87C752	28-DIP, 28-PLCC	AD87C752D, AD87C752P
87C754	28-DIP, 28-SSOP	AD87C754D, AD87C754S

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87LPC762/4/7/8/9	20-DIP, 20-SO	AD87LPC76xD, AD87LPC76xS
87C766	42-SDIP	AD87C766
87C770	52-SDIP	AD87C769
87CL880 (obsolete)	64-QFP	AD87CL880Q
87CL881 (obsolete)	44-QFP	AD87CL881Q
87CL883/4/6/7	28-SO	AD87CL883S
87CL888 (obsolete)	40-VSO	AD87CL888V
87C054/5	42-SDIP	AD87C054D
PCA5007/010	48-LQFP	AD5007LQ
PCA5097 (obsolete)	100-QFP	AD5097Q
PCD3755A/56A	28-DIP, 28-SO, 32-QFP	AD3755AD, AD3755AS, AD3755AP
PCD50917/27/37	80-LQFP	AD509x7Q
PCD6002	80-QFP	AD6002Q
XAG37	44-PLCC	ADP51XAG3P
XAG37	44-QFP	ADP51XAG3Q
XAS37	68-PLCC	ADP51XAS3P

MP-JTAG - Programmer for JTAG interfaced Devices

μ C	Package	Programming Adapters
PCD8x7xx	QFP, BGA	Available

Nomenclature:

Probe: means the emulation module that carries on the particular microprocessor

Header: is the mechanical attachment to be plugged into a target socket instead of actual chip

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