

CEIBO - PRICE LIST - August 2024 – US and Canada Only

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In-Circuit Emulators

1. DS-51 - In-Circuit Emulator for 8051 Family of Microcontrollers

DS-51 COMPLETE SYSTEMS		
PRODUCT	DESCRIPTION	PRICE
DS-51	Complete Standard System , including: <ul style="list-style-type: none"> • In-Circuit Emulator with 64 Kbyte Breakpoints • 64Kbyte Internal Code Memory and 32K Trace • Personality Probe P-C51xD2 for 8051 microcontrollers, 3/5V, 6/12 clocks/cycle • 44-PLCC Emulation Header • Windows Software • Power Supply, USB and RS-232 Cable, User Manual 	\$4900
DS-51/ 512K	Complete Standard System , supporting all memory banking options and including: <ul style="list-style-type: none"> • In-Circuit Emulator with 512 Kbyte Breakpoints • 512Kbyte Internal Code Memory and 32K Trace • Personality Probe P-C51xD2 for 8051 microcontrollers, 3/5V, 6/12 clocks/cycle • 44-PLCC Emulation Header • Windows Software • Power Supply, USB and RS-232 Cable, User Manual 	\$5990

DS-51 SYSTEMS WITHOUT PERSONALITY PROBES		
PRODUCT	DESCRIPTION	PRICE
DS-51 without Personality Probe	Standard System, including: <ul style="list-style-type: none"> • In-Circuit Emulator with 64 Kbyte Breakpoints • 64Kbyte Internal Code Memory and 32K Trace • Windows Software • Power Supply, USB and RS-232 Cable, User Manual 	\$4500
DS-51/ 512K without Personality Probe	Standard System, supporting all memory banking options and including: <ul style="list-style-type: none"> • In-Circuit Emulator with 512 Kbyte Breakpoints • 512Kbyte Internal Code Memory and 32K Trace • Windows Software • Power Supply, USB and RS-232 Cable, User Manual 	\$5500

PERSONALITY PROBES AND EMULATION HEADERS FOR DS-51		
PRODUCT	DESCRIPTION	PRICE
P-C51xD2	Personality Probe for DS-51- Spare Probe (always supplied with DS-51 or DS-51/512K in the standard configuration). • Supported devices: Atmel/Microchip AT89C51RD2/ID2/ED2 , AT89C51RC2/IC2/EC2 , Philips/NXP P89(L)V66X/P89(L)V51RX2 (factory setup) , 8051 , 8751, 8031, 8052, 8752, 8032, 80C51, 87C51, 80C31, 80C52, 87C52, 80C32, 87C51FA, 87C51FB, 87C51FC, 87C51Rx, 87C51Rx+, 87C54, 87C58, 83C504, 87C504, 83C508, 87C508, 83C524, 87C524, 80C528, 83C528, 87C528, 80C550, 83C550, 87C550, 80C652, 83C652, 87C652, 83C654, 87C654, P89C51RD2 , P89C66X and many others with 6 or 12 clocks/cycle, 3V and 5V . • Includes 44-PLCC Emulation Header.	\$1890
P-C51xD2/68P	Personality Probe for DS-51 • Supported devices: Atmel AT89C51RD2/ID2/ED2 , AT89C51RC2/IC2/EC2 and others with 6 or 12 clocks /cycle, 3V and 5V in 68-PLCC package . • Includes H-51-68P - 68-PLCC Emulation Header.	\$1890
P-C055	Personality Probe for DS-51 • Supported devices: Philips 83C054, 87C054, 83C055, 87C055 . • Includes H-055-42S - 42-SDIP Emulation Header.	\$1890
P-C152	Personality Probe for DS-51 • Supported devices: Intel 80152 . • Includes H-152-68P - 68-PLCC Emulation Header.	\$1890
P-C323	Personality Probe for DS-51 • Supported devices: Dallas DS80C323 at 3.3V . • Includes H-51-40D - 40-DIP Emulation Header.	\$1890
P-C451	Personality Probe for DS-51 • Supported devices: Philips 80C451 , 83C451, 87C451, 87C453. • Includes H-451-68P – 68-PLCC Emulation Header.	\$1890
P-C501	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C501 . • Includes H-C501-44P - 44-PLCC Emulation Header.	\$1890
P-C504	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C504 . • Includes H-C504-44Q - 44-QFP Emulation Header.	\$1890
P-C505C	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C505C in 44-QFP . • Includes H-C505-44Q - 44-QFP Emulation Header.	\$1890
P-C505CA	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C505CA in 44-QFP . • Includes H-C505-44Q - 44-QFP Emulation Header.	\$1890

P-C505L	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C505L in 80-QFP . • Needs ADP-80Q /C505 not included – Price: \$1590.	\$1890
P-C508	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C508 in 64-QFP . • Needs ADP-64Q /C508 not included – Price: \$1590.	\$1890
P-C509Q	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C509 in 100-QFP . • Needs ADP-100Q /C509 not included – Price: \$1590.	\$1890
P-C513	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C513 . • Includes H-C513-44P - 44-PLCC Emulation Header.	\$1890
P-C515P	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C515 in 68 PLCC . • Includes H-C515-68P - 68-PLCC Emulation Header.	\$1890
P-C515Q	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C515 in 80-QFP . • Needs ADP-80Q /C515 not included – Price: \$1590.	\$1890
P-C517P	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C517 in 84 PLCC . • Includes H-C517-84P - 84-PLCC Emulation Header.	\$1890
P-C517Q	Personality Probe for DS-51 • Supported devices: Siemens/Infineon SAB-C517 in 100-QFP . • Needs ADP-100Q /C517 not included – Price: \$1590.	\$1890
P-C517	Personality Probe for DS-51 • Supported devices: Siemens/Infineon 80512, 80532, 80C515, 80C515A, 83C515A, 80C535, 80C517, 80C517A, 83C517A, 80C537 . • Includes one of the available headers (HD-517-40D, HD-517-68P or HD-517-84P), an additional header costs \$210.	\$1890
H-517-40D	40- DIP Emulation Header for Probe P-C517.	\$210
H-517-68P	68- PLCC Emulation Header for Probe P-C517.	\$210
H-517-84P	84- PLCC Emulation Header for Probe P-C517.	\$210
P-C530	Personality Probe for DS-51 • Supported devices: Dallas 80C310, 80C320, 80C520, 87C520, 87C530 . • Includes one of the available headers (HD-530-40D, HD-530-44P or HD-530-52P), an additional header costs \$210.	\$1890
H-530-40D	40-DIP Emulation Header for Probe P-C530.	\$210
H-530-44P	44-PLCC Emulation Header for Probe P-C530.	\$210
H-530-52P	52-PLCC Emulation Header for Probe P-C530.	\$210

P-C550	Personality Probe for DS-51 • Supported devices: Philips 80C550 , 83C550, 87C550 in 44-PLCC package. • Includes H-C550-44P - 44-PLCC Emulation Header.	\$1890
P-DS550R	Personality Probe for DS-51 • Supported devices: Dallas DS87C550 in ROMess mode only. • Includes H-DS550-68P - 68-PLCC Emulation Header.	\$1890
P-C554P	Personality Probe for DS-51 • Supported devices: Philips 80C552, 83C552, 87C552 , 87C554 in 68-PLCC, 80C562, 83C562. • Includes H-552-68P - 68-PLCC Emulation Header.	\$1890
P-C554Q	Personality Probe for DS-51 • Supported devices: Philips 80C554, 83C554, 87C554 , all of them in 64-LQFP. • Includes H-554-64Q - 64-LQFP Emulation Header and Adapter.	\$2890
P-C558	Personality Probe for DS-51 • Supported devices: Philips 80C557, 8xC558 , 8xC559. • Includes H-558-80R Emulation Header (needs ADP-80Q /C558 not included – Price: \$1590).	\$2890
P-C575	Personality Probe for DS-51 • Supported devices: Philips 80C575 , 83C575, 87C575. • Includes H-C51-40D - 40-DIP Emulation Header.	\$2890
P-C591	Personality Probe for DS-51 • Supported devices: Philips P8xC591 . • Includes H-C591-44P - 44-PLCC Emulation Header.	\$2890
P-C592	Personality Probe for DS-51 • Supported devices: Philips 80C592, 83C592, 87C592 . • Includes H-C592-68P - 68-PLCC Emulation Header.	\$2890
P-C598	Personality Probe for DS-51 • Supported devices: Philips 80C598, 83C598, 87C598 . • Includes H-598-80R Emulation Header (needs ADP-80Q /C598 not included – Price: \$1590).	\$2890
P-C752	Personality Probe for DS-51 • Supported devices: Philips 83C748, 87C748, 83C749, 87C749, 83C750, 87C750, 83C751, 87C751, 83C752, 87C752 . • Includes H-C752-28D - 28-DIP Emulation Header.	\$2890
P-SND1	Personality Probe for DS-51 • Supported devices: Atmel AT80C51SND1 and AT80C5132. • Includes H-SND1-80R Emulation Header (row of pins to connect QFP-80 or PLCC-84 adapters). Needs ADP-80Q /SND1 for 80-QFP support and it is not included – Price: \$1590. Needs ADP-84P/SND1 for 84-PLCC support and it is not included – Price: \$210.	\$2890
P-W77	Personality Probe for DS-51 • Supported devices: Winbond W77C/E/LE/xx Turbo-51. • Includes H-C51-44P - 44-PLCC Emulation Header.	\$2890

P-W78	Personality Probe for DS-51 • Supported devices: Winbond W78C/E/xx . • Includes H-C51-44P - 44-PLCC Emulation Header.	\$2890
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DS-51 ADAPTERS		
PRODUCT	DESCRIPTION	PRICE
ADP-20D	40-pin DIP to 20-pin DIP Adapter for Atmel microcontrollers	\$210
ADP-24D	28-pin DIP to 24-pin DIP Adapter	\$210
ADP-28P	28-pin DIP to 28-pin PLCC Adapter	\$210
ADP-28P-751	28-pin DIP to 28-pin PLCC Adapter for Philips 87C750/1	\$210
ADP-44P	40-pin DIP to 44-pin PLCC Adapter	\$210
ADP-44P-E	44-pin PLCC to 44-pin PLCC Adapter Extender	\$210
ADP-44Q	40-pin DIP to 44-pin QFP Adapter	\$390
ADP-44Q-P	44-pin PLCC to 44-pin QFP Adapter	\$390
ADP-56V	Row of pins to 56-pin VSO Adapter for DS-51, Probe P-C580	\$990
ADP-64Q	Row of pins to 64-pin QFP Adapter for DS-51, Probe PC580	\$1590
ADP-64LQ	68-pin PLCC to 64-pin LQFP Adapter for DS-51, Probe P-C554Q	\$1590
ADP-80Q	Row of pins to 80-pin QFP Adapter	\$1590
ADP100Q	Row of pins to 100-pin QFP Adapter	\$1590
ADP-100LQ	Row of pins to 100-pin QFP Adapter for Probe P-C509Q, P-C517Q	\$1590

DS-51 ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
DS-51MB	DS-51 Main Board Replacement	\$2500
DS-51/512K MB	DS-51/512K Main Board Replacement	\$2700
DS-51/512K Upgrade	DS-51 to DS-51/512K Mother Board Replacement with 512K banking	\$2900
FC-60	Spare 60-pin flat cable	\$90
FC-100	Spare 100-pin flat cable	\$210

2. DS-251 - In-Circuit Emulator for 251 Microcontrollers

DS-251 SYSTEM WITHOUT PERSONALITY PROBE		
PRODUCT	DESCRIPTION	PRICE
DS-251	In-Circuit Emulator for 8XC251Sx/Tx/Gx microcontrollers and derivatives including: <ul style="list-style-type: none"> • 256K Memory • 32Kx128-bit Trace • 256K Hardware Breakpoints • Windows Debugger • Power Supply, RS-232 Cable and User Manual Note: Personality Probe and Emulation Header are not included .	\$9900

PERSONALITY PROBES AND EMULATION HEADERS FOR DS-251		
PRODUCT	DESCRIPTION	PRICE
P-251Tx/ 5Volt	Personality Probe for Intel 8xC251Sx/Tx with 44-pin PLCC Header. 5 Volt Emulation. Intel Bond-Out Technology.	\$3950
P-251Gx / 5Volt	Personality Probe for Temic / Atmel TCS8xC251Gx with 44-pin PLCC Header. 5Volt Emulation. Bond-Out Technology.	\$3950
P-251Tx/ 3Volt	Personality Probe for Intel 8xC251Sx/Tx with 44-pin PLCC Header. 3 Volt Emulation. Intel Bond-Out Technology.	\$4950
P-251Gx / 3Volt	Personality Probe for Temic / Atmel TCS8xC251Gx with 44-pin PLCC Header. 3 Volt Emulation. Bond-Out Technology.	\$4950

DS-251 ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
TR-251/128k	128Kx128-bit Trace with trigger capabilities and hardware breakpoints (basic unit already includes 32Kx128 Trace).	\$3990
DS-251 MB	Main Board Replacement for DS-251.	\$3500

3. DS-XA - In-Circuit Emulator for XA Microcontrollers

DS-XA SYSTEM WITHOUT PERSONALITY PROBE		
PRODUCT	DESCRIPTION	PRICE
DS-XA	In-Circuit Emulator for Philips XA microcontrollers including: <ul style="list-style-type: none">• 2MByte Memory• Real-Time Trace• Debug-XA -Debugger and Simulator for Windows• Power Supply, RS-232 Cable and User Manual Note: Personality Probe and Emulation Header are not included .	\$9500

PERSONALITY PROBES AND EMULATION HEADERS FOR DS-XA		
PRODUCT	DESCRIPTION	PRICE
P-G3	Personality Probe for Philips XA-G3 with 44-pin PLCC Emulation Header.	\$3690
P-G49	Personality Probe for Philips XA-G49 with 44-pin PLCC Emulation Header.	\$3690
P-S3	Personality Probe for Philips XA-S3 with 68-pin PLCC Emulation Header.	\$3690
P-C3	Personality Probe for Philips XA-C3 with 44-pin PLCC Emulation Header.	\$3690

DS-XA ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
DS-XA MB	Main Board Replacement for DS-XA.	\$4600

4. DS-48 - In-Circuit Emulator for 8048 Microcontrollers

DS-48 SYSTEM WITHOUT PERSONALITY PROBE		
PRODUCT	DESCRIPTION	PRICE
DS-48	In-Circuit Emulator for Philips Telecom 8048 microcontrollers including: <ul style="list-style-type: none">• 8KByte Memory and 8K Breakpoints• 32K Trace• Debugger and Simulator for Windows• Power Supply, RS-232 Cable and User Manual Note: Personality Probe and Emulation Header are not included .	\$9900

PERSONALITY PROBES AND EMULATION HEADERS FOR DS-48		
PRODUCT	DESCRIPTION	PRICE
P-C84	Personality Probe, 28-DIP Emulation Header.	\$2690
P-C3349	Personality Probe, 28-DIP Emulation Header.	\$2690
P-C3350	Personality Probe, 28-DIP and 44-QFP Emulation Header.	\$2690
P-C3354	Personality Probe, 28-DIP and 44-QFP Emulation Header.	\$2690
P-C3745	Personality Probe, 28-pin DIP Emulation Header.	\$2690
P-8741	Personality Probe, 40-pin DIP Emulation Header for Intel 8741.	\$5900

DS-48 ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
PCU-48	Port Configuration Unit for DS-48.	\$4690

5. DS-M8 - In-Circuit Emulator for Microchip PIC Microcontrollers

DS-M8 SYSTEM WITHOUT PERSONALITY PROBE		
PRODUCT	DESCRIPTION	PRICE
DS-M8	In-Circuit Emulator for Microchip PIC microcontrollers including: <ul style="list-style-type: none"> • 128KByte Memory and 32K Trace • Windows Debugger • Power Supply, RS-232 Cable and User Manual Note: Personality Probe and Emulation Header are not included .	\$5900

PERSONALITY PROBES AND EMULATION HEADERS FOR DS-M8		
PRODUCT	DESCRIPTION	PRICE
P-14000	Personality Probe for DS-M8 <ul style="list-style-type: none"> • Supported devices: PIC14000. • Includes HD28D, HD28SD Emulation Header. 	\$2990
P-16C01	Personality Probe for DS-M8 <ul style="list-style-type: none"> • Supported devices: PIC12C508 / C509, PIC16C52 / C54 / C55 / C56 / C57 / C58. • Includes HD18D, HD28D, HD28SD Emulation Header. 	\$850

P-16C554	Personality Probe for DS-M8 • Supported devices: PIC16C554/C556/C558. • Includes HD18D, HD20D Emulation Header.	\$850
P-16C61	Personality Probe for DS-M8 • Supported devices: PIC16C61. • Includes HD18D Emulation Header.	\$850
P-16C622	Personality Probe for DS-M8 • Supported devices: PIC16C620/C621/C622. • Includes HD18D Emulation Header.	\$850
P-16C77	Personality Probe for DS-M8 • Supported devices: PIC16C66/C67/C76/C77. • Includes HD28D, HD28SD, HD40D, HD44P Emulation Header.	\$850
P-16C711	Personality Probe for DS-M8 • Supported devices: PIC16C70/C71/C71A/C710/C711. • Includes HD18D Emulation Header.	\$850
P-16C715	Personality Probe for DS-M8 • Supported devices: PIC16C715. • Includes HD18D Emulation Header.	\$850
P-16C74	Personality Probe for DS-M8 • Supported devices: PIC16C62/C63/C64/C65/C72/C73/C74. • Includes HD28D, HD28SD, HD40D, HD44P Emulation Header.	\$850
P-16C84	Personality Probe for DS-M8 • Supported devices: PIC16C83/C84. • Includes HD18D Emulation Header.	\$850
P-17C02	Personality Probe for DS-M8 • Supported devices: PIC17C42/C43/C44. • Includes HD40D, HD44P Emulation Header.	\$850
P-17C03	Personality Probe for DS-M8 • Supported devices: PIC17C752/756. • Includes HD68P Emulation Header.	\$850

DS-M8 ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
DS-M8 MB	Main Board Replacement for DS-M8.	\$850

6. DS-186 - In-Circuit Emulator for 80C186/8 Microprocessors

DS-186 SYSTEM WITHOUT TRACE AND PERSONALITY PROBE		
PRODUCT	DESCRIPTION	PRICE
DS-186	<p>In-Circuit Emulator including:</p> <ul style="list-style-type: none"> • 1MByte Memory • Trace module, 8K Frames with Triggers • Power Supply, USB Cable and User Manual • Windows 11 Debugger (runs also under Windows 10, 7 and XP) <p>Note: Personality Probe are not included.</p>	\$9990

TRACE, PERSONALITY PROBES AND EMULATION HEADERS FOR DS-186		
PRODUCT	DESCRIPTION	PRICE
A-86	<p>Personality Probe and Emulation Header for 8086, 8088, NEC V20 and NEC V30.</p> <ul style="list-style-type: none"> • Includes 40-DIP Emulation Header. 	\$3990
A-186	<p>Personality Probe and Emulation Header for 80C186/8/EA/XL.</p> <ul style="list-style-type: none"> • Includes 68-PLCC Emulation Header. 	\$3990
A-186EB	<p>Personality Probe and Emulation Header for Intel 80C186/8EB.</p> <ul style="list-style-type: none"> • Includes 84-PLCC Emulation Header. 	\$3990
ADP-80Q-EB	Adapter for 80C186EB and 80C188EB in 80-PQFP package.	\$1590
A-186EC	<p>Personality Probe and Emulation Header for Intel 80C186/8EC.</p> <ul style="list-style-type: none"> • Includes Emulation Header without 100-pin QFP adapter. <p>Note: ADP-186EC does not include the required ET adapter (Emulation Technology, USA). There are different adapters from ET to fit the two packages of the device (square and rectangular) as well as the printed circuit board layout of the user (socket, soldering pads, etc).</p>	\$3990
ADP-100Q-SMC	Adapter for 80C186EC and 80C188EC in 100-PQFP package.	\$1590
ADP-100Q-AMP	Adapter for 80C186EC and 80C188EC in 100-PQFP package.	\$1590
ADP-100Q-TEX	Adapter for 80C186EC and 80C188EC in 100-PQFP package.	\$1590
ADP-100Q-SOL	Adapter for 80C186EC and 80C188EC in 100-PQFP package.	\$1590
ADP-100J-SMC	Adapter for 80C186EC and 80C188EC in 100-EIAJ package.	\$1590
ADP-100J-SOL	Adapter for 80C186EC and 80C188EC in 100- EIAJ package.	\$1590
A-V25	<p>Personality Probe and Emulation Header for NEC V25.</p> <ul style="list-style-type: none"> • Includes 84-PLCC Emulation Header. 	\$4990

ADP-V25-QFP	Adapter for NEC V25 from 84-PLCC to 80-QFP.	\$1590
A-V50	Personality Probe and Emulation Header for NEC V40 and V50 . • Includes 68-PLCC Emulation Header.	\$3990

7. DS-85 - In Circuit Emulator for 8085 Microprocessors

DS-85 COMPLETE SYSTEM		
PRODUCT	DESCRIPTION	PRICE
DS-85	Complete Standard System for 8085 including: • In-Circuit Emulator with 64 Kbyte Breakpoints • 64Kbyte Memory and 32KX32 Trace • 40-DIP Emulation Header • Windows Software • Power Supply, RS-232 Cable, USB Cable and User Manual	\$14990

Low Cost and Dedicated Emulators

8. EB-51 - Emulator for 8051 Family of Microcontrollers

EB-51 COMPLETE SYSTEM		
PRODUCT	DESCRIPTION	PRICE
EB-51	Complete System, including: • 3V/5V In-Circuit Emulator • 64Kbyte Internal Code Memory • 40-DIP Emulation Header • Windows Software • Power Supply, RS-232 Cable, USB Cable and User Manual	\$1590

EB-51 ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
EB-51-320	Upgrade kit to support Dallas 80C320 and 80C323 microcontrollers including debugger and hardware parts.	\$410
ADP-20D	40-DIP to 20-DIP Adapter for In-Circuit emulation of 20-DIP devices. Fits on EB-51 emulation header.	\$210

ADP-44P	40-DIP to 44-PLCC Adapter for In-Circuit emulation of 44-PLCC devices. Fits on EB-51 emulation header.	\$210
ADP-44Q	40-DIP to 44-QFP Adapter for In-Circuit emulation of 44-QFP devices. Fits on EB-51 emulation header.	\$390
B-552EB	Daughter board for Philips 8XC552 emulation. Fits on EB-51.	\$210
H-552EB-68P	68-Pin PLCC emulation header for EB-51 used to in-circuit emulation of Philips 8XC552.	\$210

9. EB-51X2 - Emulator for 80C51 and 89C51Rx2 Microcontrollers

EB-51X2 BASIC SYSTEM		
PRODUCT	DESCRIPTION	PRICE
EB-51X2	System including: <ul style="list-style-type: none"> • 3V/5V and 6/2 clocks/cycle In-Circuit Emulator • 64Kbyte Internal Code Memory • Real-Time Trace • Windows Software • Power Supply, RS-232 Cable, USB Cable and User Manual Note: Daughter Boards, Emulation Headers, Flat Cables and Adapters are not included in the price. A typical system consists of EB-51x2, B-Rx2, FC-60 and H-44P.	\$2990

EB-51X2 ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
B-Rx2	Daughter Board for EB-51x2 supporting 89C51RB2/C2/D2 , 89C660/2/4/8 and others. Needs EB-51x2, FC-60 and H-44P (or H-40D) to complete the kit.	\$800
B-554	Daughter Board for EB-51x2 supporting Philips 8xC552, 8xC554 in 68-PLCC package. Needs EB-51x2, FC-68P and H-68P to complete the kit.	\$800
B-554Q	Daughter Board for EB-51x2 supporting 80C554, 83C554, 87C554 in 64-LQFP package. Needs EB-51x2, FC-68P, H-68P and ADP-64LQ to complete the kit.	\$1900
B-591	Daughter Board for EB-51x2 supporting Philips 80C591, 83C591, 87C591 in 44-PLCC package. Needs EB-51x2, FC-60 and H-44P to complete the kit.	\$800

H-44P	Emulation Header 44-PLCC (needs FC-60).	\$210
H-40D	Emulation Header 40-DIP (needs FC-60).	\$210
H-68P	Emulation Header 68-PLCC (needs FC-68).	\$210
FC-60	Flat Cable for 40-DIP and 44-PLCC.	\$90
FC-68P	Flat Cable for 68-PLCC and 64-LQFP.	\$90
ADP-44Q-P	Adapter - 44-PLCC to 44-QFP. Fits on H-44P.	\$390
ADP-64LQ	Adapter - 68-PLCC to 64-LQFP. Fits on H-68P.	\$1590
EB-51x2MB	EB-51x2 Main Board Replacement.	\$590
EB-PS 5V	Spare Power Supply for EB-51x2.	\$65

10. EB-C251 - Emulator for Intel and Atmel 251 Microcontrollers

EB-C251 BASIC SYSTEM		
PRODUCT	DESCRIPTION	PRICE
EB-C251	System including: <ul style="list-style-type: none"> • 3V/5V In-Circuit Emulator for 251 Microcontrollers • 256Kbyte Memory • Real-Time Trace • Windows Software • Power Supply, RS-232 Cable and User Manual Note: Daughter Boards and Emulation Headers are not included in price. A typical system consists of EB-C251, B-C251Tx and H-44P.	\$7900

EB-C251 ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
B-C251Tx	Daughter Board for EB-C251 supporting Intel 80C251Sx/Tx Microcontrollers with Intel Bond-Out. Needs EB-C251 and H-44P (or H-40D) to complete the kit.	\$2890
B-C251Gx	Daughter Board for EB-C251 supporting Temic/Atmel C251Gx Microcontrollers with Temic/Atmel Bond-Out. Needs EB-C251 and H-44P (or H-40D) to complete the kit.	\$2890

H-44P	Emulation Header 44-PLCC.	\$210
H-40D	Emulation Header 40-DIP.	\$210
ADP-44Q-P	Adapter - 44-PLCC to 44-QFP. Fits on H-44P.	\$390
EB-C251MB	EB-C251 Main Board Replacement.	\$2390
EB-PS 5V	Spare Power Supply for EB-C251.	\$65

11. FE-51RD2 - Development System for Atmel AT89C51RD2/ED2/ID2 and others

FE-51RD2 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-51RD2	Complete Development System including: <ul style="list-style-type: none"> • Emulator for Atmel AT89C51iC2, AT89C51RB2/C2, AT89C51RD2/ED2, etc. • MP-51RD2 - Microcontroller Programmer • DB-51RD2 - Development Board • 44-PLCC Emulation Header • Windows Software • Power Supply, RS-232 Cable, UBS Cable and User Manual 	\$1590

FE-51RD2 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-44Q-P	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	\$390
ADP-40D	44-PLCC to 40-DIP Adapter for In-Circuit emulation of microcontrollers with 40-DIP package.	\$210

12. FE-51RD2/68P - Development System for Atmel AT89C51RD2/ED2 - PLCC-68

FE-51RD2/68P COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-51RD2/68P	Complete Development System including: <ul style="list-style-type: none"> • Emulator for Atmel AT89C51RD2/ED2/ID2, etc. in 68-PLCC package. • MP-51RD2 - Microcontroller Programmer 	\$1990

	<ul style="list-style-type: none"> • DB-51RD2/68P - Development Board • 68-PLCC Emulation Header • Windows Software • Power Supply, RS-232 Cable, UBS Cable and User Manual 	
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13. FE-C51CC01 - Development System for Atmel AT89C51CC01/2, AT89C51AC2/5115

FE-C51CC01 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-C51CC01	Complete Development System including: <ul style="list-style-type: none"> • Emulator for Atmel AT89C51CC01/2 and AT89C51AC2/5115 Microcontrollers • MP-51RD2 - Microcontroller Programmer • DB-51RD2/CC01/2 - Development Board • 44-PLCC Emulation Header • Windows Software • Power Supply, RS-232 Cable, UBS Cable and User Manual 	\$1990

FE-C51CC01 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-44Q-P	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	\$390
ADP-28P/CC02	44-PLCC to 28-PLCC Adapter.	\$210
ADP-28SO/CC02	44-PLCC to 28-SO Adapter.	\$210
ADP-32Q/CC02	44-PLCC to 32-QFP Adapter.	\$990

14. FE-51CC03 - Development System for Atmel AT89C51CC03/ AT89C51AC3

FE-51CC03 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-51CC03	Complete Development System including: <ul style="list-style-type: none">• Emulator for Atmel AT89C51CC03/AC3 Microcontrollers• DB-51RD2/CC03/AC3 - Development Board• MP-51RD2 - Microcontroller Programmer• 44-PLCC and 52-PLCC Emulation Header• Windows Software• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$1990

FE-51CC03 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-44Q-P	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	\$390
ADP-TQFP64/CC03	52-PLCC to 64-TQFP-64 Adapter.	\$1190
ADP-PLCC52/CC03	52-PLCC Adapter.	\$210

15. FE-SND1 - Development System for Atmel AT89C51SND1/AT89C5132

FE-SND1 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-SND1	Complete Development System including: <ul style="list-style-type: none">• Emulator for Atmel AT89C51SND1 and AT89C5132 in 80-QFP package.• MP-51RD2 - Microcontroller Programmer• ADP-80Q/SND1 - Adapter including one extender and one soldering block• Windows Software• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$2990

FE-SND1 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-84/SND1-PLCC	Row of pins to 84-pin PLCC Adapter for In-Circuit emulation of microcontrollers with PLCC package	\$210

ADP-84/SND1-T	Termination Board. Needed to emulate when a target is not available.	\$390
ADP-80Q/SND1	80-QFP Adapter including one extender and one soldering block. One set included in the complete system.	\$1590
ADP-80Q/SND1-S	Soldering Block replacement for ADP-80Q/SND1. One is included in the complete system.	\$390

16. FE-SND2 - Development System for Atmel AT89C51SND2

FE-SND2 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-SND2	Complete Development System including: <ul style="list-style-type: none"> • Emulator for Atmel AT89C51SND2C in CBGA-100 package. • Windows Software • Power Supply, RS-232 Cable, UBS Cable and User Manual 	\$1990

17. FE-5121 - Development System for Atmel AT89C5121

FE-5121 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-5121	Complete Development System including: <ul style="list-style-type: none"> • Emulator for Atmel AT89C5121 Microcontrollers in 52-PLCC package • Termination Board • Windows Software • Power Supply, RS-232 Cable, UBS Cable and User Manual 	\$3990

FE-5121 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-24S/5121	52-PLCC to 24-SSOP Adapter for In-Circuit emulation of microcontrollers with 24-SSOP package.	\$390

18. FE-5122 - Development System for Atmel AT89C5122

FE-5122 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-5122	Complete Development System including: <ul style="list-style-type: none">• Emulator for Atmel AT89C5122 Microcontrollers in 68-PLCC package• Termination Board• Windows Software• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$3490

FE-5122 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-28P/5122	68-PLCC to 28-PLCC Adapter for In-Circuit emulation of microcontrollers with 28-PLCC package.	\$210
ADP-32Q/5122	68-PLCC to 32-LQFP Adapter for In-Circuit emulation of microcontrollers with 32-LQFP package.	\$990
ADP-64Q/5122	68-PLCC to 64-VQFP Adapter for In-Circuit emulation of microcontrollers with 64-VQFP package.	\$1590

19. FE-5131A - Development System for Atmel AT89C5131A

FE-5131A COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-5131A	Complete Development System including: <ul style="list-style-type: none">• Emulator for Atmel AT89C5131 and AT89C5131A Microcontrollers in 52-PLCC package• Termination Board• Windows Software• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$3990

FE-5131A ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
UPG-5131A	Emulator upgrade for customers that purchased FE-5131 and need support for AT89C5131A.	\$990

ADP-28S/5131	52-PLCC to 28-SOIC Adapter for In-Circuit emulation of microcontrollers with 28-SOIC package.	\$390
ADP-32Q/5131	52-PLCC to 32-QFN Adapter for In-Circuit emulation of microcontrollers with 32-QFN package.	\$990
ADP-44P/5131	52-PLCC to 44-PLCC Adapter for In-Circuit emulation of microcontrollers with 44-PLCC package.	\$210
ADP-64Q/5131	52-PLCC to 64-VQFP Adapter for In-Circuit emulation of microcontrollers with 64-VQFP package.	\$1590
ADP-80Q/5131	52-PLCC to 80-QFP Adapter for In-Circuit emulation of microcontrollers with 80-QFP package.	\$1590

20. FE-RE2 - Development System for Atmel AT89C51IE2/RE2

FE-RE2 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-RE2	Complete Development System including: <ul style="list-style-type: none"> • Emulator for Atmel AT89C51IE2 and AT89C51RE2 • MP-51RD2 - Microcontroller Programmer • DB-51RD2 - Development Board • 44-PLCC Emulation Header • Windows Software • Power Supply, RS-232 Cable, UBS Cable and User Manual 	\$2590

FE-RE2 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-44Q-P	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	\$390
ADP-40D	44-PLCC to 40-DIP Adapter for In-Circuit emulation of microcontrollers with 40-DIP package.	\$210

21. FE-C450 - Development System for Dallas DS89C450 and others

FE-C450 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-C450	Complete Development System including: <ul style="list-style-type: none">• Emulator for Dallas DS89C420/430/440/450• MP-C450 - Microcontroller Programmer• DB-51RD2 - Development Board• 44-PLCC Emulation Header• Windows Software• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$3990

FE-C450 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-44Q-P	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	\$390
ADP-40D	44-PLCC to 40-DIP Adapter for In-Circuit emulation of microcontrollers with 40-DIP package.	\$210

22. EB-XAG3 - Development System for Philips XA-G3

EB-XAG3 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
EB-XAG3	Complete Development System including: <ul style="list-style-type: none">• Emulator Philips XA-G3; 64K emulation memory• 44-PLCC Emulation Header• Windows Software, 2K C-Compiler and 64K Assembler• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$4990

EB-XAG3 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
EB-XAMB/G3	EB-XAG3 Main Board replacement.	\$990

23. EB-XAG49 - Development System for Philips XA-G49

EB-XAG3 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
EB-XAG49	Complete Development System including: <ul style="list-style-type: none">• Emulator Philips XA-G49; 64K emulation memory• 44-PLCC Emulation Header• Windows Software, 2K C-Compiler and 64K Assembler• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$4990

EB-XAG49 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
EB-XAMB/G49	EB-XAG49 Main Board replacement.	\$990

24. EB-XAS3 - Development System for Philips XA-S3

EB-XAG3 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
EB-XAS3	Complete Development System including: <ul style="list-style-type: none">• Emulator Philips XA-G3; 64K emulation memory• 68-PLCC Emulation Header• Windows Software, 2K C-Compiler and 64K Assembler• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$4990

EB-XAS3 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
EB-XAMB/S3	EB-XAS3 Main Board replacement.	\$990

25. EB-76X - Emulator for Philips P87LPC76X

EB-76X COMPLETE SYSTEM		
PRODUCT	DESCRIPTION	PRICE
EB-76X	Complete System including: <ul style="list-style-type: none">• 3V/5V In-Circuit Emulator supporting Philips P8xLPC762/4/7/8/9 and other Philips LPCs, based on Bond-Out technology with embedded trace capabilities.• 32Kbyte Internal Code Memory• 20-DIP Emulation Header• Windows Software• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$1990

EB-76X ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
EB-76XMB	EB-76X Main Board replacement.	\$990
76XBO	76X Bond Out replacement.	\$690

26. FE-900 - Emulator for Philips P89LPC9XX

FE-900 COMPLETE SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-900	Complete System including: <ul style="list-style-type: none">• 3V/5V In-Circuit Emulator supporting Philips P89LPC9XX based on Bond-Out technology with embedded trace capabilities.• DB-LPC900 – Development Board• MP-LPC900 – Microcontroller Programmer• 28-PLCC Emulation Header• Windows Software• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$4990

FE-900 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
9XXBO	9XX Bond Out replacement.	\$150
ADP-20D/900	28-DIP-0.6" to 20-DIP-0.3" Adapter for In-Circuit emulation of microcontrollers with 20-DIP-0.3" package.	\$90
ADP-28D/900	28-DIP-0.6" to 28-DIP-0.3" Adapter for In-Circuit emulation of microcontrollers with 28-DIP-0.3" package.	\$90
ADP-8TSSOP/900	28-DIP-0.6" to 8-TSSOP Adapter for In-Circuit emulation of microcontrollers with 8-TSSOP package.	\$450
ADP-20TSSOP/900	28-DIP-0.6" to 20-TSSOP Adapter for In-Circuit emulation of microcontrollers with 20-TSSOP package.	\$450
ADP-28TSSOP/900	28-DIP-0.6" to 28-TSSOP Adapter for In-Circuit emulation of microcontrollers with 28-TSSOP package.	\$450

27. FE-51MX - Emulator for Philips P8xC51MA/B/C, P89C669

FE-51MX COMPLETE SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-51MX	Complete System including: <ul style="list-style-type: none"> • Emulator for Philips P8xC51MA/B/C, P89C669 in 44-PLCC package based on Bond-Out technology with embedded trace capabilities. • DB-51RD2 – Development Board • 44-PLCC Emulation Header • Windows Software • Power Supply, RS-232 Cable, UBS Cable and User Manual 	\$6990

FE-51MX ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-44Q-P	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	\$390

28. EB-ST62 - Emulator for STMicroelectronics ST62xx

EB-ST62 COMPLETE SYSTEM		
PRODUCT	DESCRIPTION	PRICE
EB-ST62	Complete System including: <ul style="list-style-type: none"> • 5V and 3.3V Emulator for the ST62 Microcontrollers (One PEB-62xx is necessary but <u>not</u> included; choose one while ordering) • Source-Level Debugger for C and Assembler • Power Supply, RS-232 Cable and User Manual 	\$3590
PEB-6225	Peripheral Emulation Board supporting ST6200/ 01/ 03/ 08/ 09/ 10/ 15/ 20/ 25 with HD-6201, HD6220 emulation headers	\$490
PEB-6228	Peripheral Emulation Board supporting ST6218/28 with HD-6218 emulation header	\$490
PEB-6265	Peripheral Emulation Board supporting ST6252/ 53/ 55/ 60/ 62/ 63/ 65 with HD-6260, HD6262 emulation headers	\$490

29. FE-WRD2 - Development System for Winbond W7xxxx

FE-WRD2 COMPLETE DEVELOPMENT SYSTEM		
PRODUCT	DESCRIPTION	PRICE
FE-WRD2	Complete Development System including: <ul style="list-style-type: none"> • Emulator for Winbond W78(L)E516/ E58B/ L58/ E858/ E365/ ERD2 Microcontrollers and others in PLCC-44 package • MP-51RD2 - Microcontroller Programmer • DB-51RD2 - Development Board • 44-PLCC Emulation Header • Windows Software • Power Supply, Cables and User Manual 	\$3990

FE-WRD2 ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
ADP-44Q-P	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	\$390
ADP-40D	44-PLCC to 40-DIP Adapter for In-Circuit emulation of microcontrollers with 40-DIP package.	\$210

Development Boards

30. DB-51 - Development Board for 80C51 Microcontrollers

DB-51 DEVELOPMENT BOARD		
PRODUCT	DESCRIPTION	PRICE
DB-51	Development Board including: <ul style="list-style-type: none">• 5V and 3.3V board supporting 8051 derivatives (40- DIP, 44- QFP, 44-PLCC) and 8xC552/4 in 68- PLCC package• Windows Debugger for C and Assembler• Power Supply, RS-232 Cable, UBS Cable and User Manual	\$1390

31. DS-750 - Development Board for Philips 87C750 Microcontrollers

DS-750 DEVELOPMENT BOARD		
PRODUCT	DESCRIPTION	PRICE
DS-750	Development Board including: <ul style="list-style-type: none">• Emulator, built-in Programmer and 24-DIP Emulation Header• DOS Debugger for C and Assembler, runs under Windows 98• Power Supply, RS-232 Cable and User Manual	\$990

DS-750 ACCESSORIES AND REPLACEMENTS		
PRODUCT	DESCRIPTION	PRICE
FC-24	Spare 24-pin flat cable.	\$30
RS232-CABLE	Spare RS-232 Cable.	\$30
DS-750MB	DS-750 Main Board Replacement.	\$590
PS15V	Spare Power Supply for DS-750.	\$30

Programmers and PSD Tools

32. MP-51 - EPROM, Flash and Microcontroller Programmer

PRODUCT	DESCRIPTION	PRICE
MP-51	MP-51 Programmer including: <ul style="list-style-type: none"> • Software and User manual • Power Supply and , RS-232 Cable Note: Adapters are not included in the price.	\$700

MP-51 EPROM, FLASH AND PSD ADAPTERS		
PRODUCT	DESCRIPTION	PRICE
AD27040D 32-DIP	Adapter for 27010 to 27040, 28F256, 28F512, 28F010, 28F020, AT29C256/7, AT29C512, AT29C010A, AT29C020, AT29C040A.	\$210
AD27040P 32-PLCC	Adapter for 27010 to 27040, 28F256, 28F512, 28F010, 28F020.	\$210
AD27512D 28-DIP	Adapter for 2716 to 27512 NMOS and CMOS, AT28C64B.	\$210
AD27512P 32-PLCC	Adapter for 2716 to 27512 NMOS and CMOS, AT28C64B.	\$210
ADPSD301P 44-PLCC	Adapter for PSD301, PSD301L, PSD302, PSD302L, PSD303, PSD303L, PSD311, PSD311L, PSD312, PSD312L, PSD313, PSD313L.	\$210

MICROCONTROLLER ADAPTERS		
PRODUCT	DESCRIPTION	PRICE
AD87C51D 40-DIP	Adapter for 8751H, 8751/2BH, 87C51/2/4/8, TSC87C51/2, TS87C51RB2/C2/D2, TS87C54X2, TS87C58X2, 87C51FA/B/C, 87C51RA/B/C, 87C51RA/B/C+, 87L51FA/B/C, 87C504/8, 87C524/8, 87C550, 87C652/4, AT87C55WD, AT89C51RC, AT89C55WD, DS87C520, DS89C420, AT89C51/2/5 P89C52/4/8, P89C51RA/B/C/D+, P89C51RA/B/C/D2, P89C51RB2H/C2H/D2H, P89C51/2/4, P89C51U/2U/4U/8U, P89C660/2/4/8, T89C51RA/B/C/D2/IB2/IC2, AT89S8285, AT89S51/2/3, AT89LS53, P89C536/8, SAB-C501G-1E, SAB-C513A-2E, SAB-C505CA-4E, SAB-C513A-2E, SAB-C513A-2E, IS89C52, IS89E54/8, IS89E64 and many others in 40-DIP package.	\$210
AD87C51P 44-PLCC	Same as above in 44-PLCC package.	\$210
AD87C51Q 44-QFP	Same as above in 44-QFP package.	\$210
AD87C51GB 68-PLCC	Adapter for 87C51GB.	\$210

ADC508MQ-MQFP64	Adapter for SAB C508-4E.	\$380
ADC508Q 64-QFP	Adapter for SAB C508.	\$380
ADC515Q 80-QFP	Adapter for SAB C515C.	\$380
ADXAG3P 44-PLCC	Adapter for PXAG17/27/37.	\$210
ADXAG3Q 44-QFP	Adapter for PXAG37.	\$210
ADXAG49P 44-PLCC	Adapter for PXAG39/49.	\$210
ADXAG49Q 44- QFP	Adapter for PXAG39/49.	\$210
ADXAS37P 68- PLCC	Adapter for PXAS37.	\$210
ADXAS37Q 80-QFP	Adapter for PXAS37.	\$380
AD87CL134D 42-SDIP	Adapter for 87CL134.	\$210
AD87CL134Q 44-QFP	Adapter for 87CL134.	\$210
AD87C251D 40-DIP	Adapter for 87C251SA/B/P/Q, TSC87251G1/2, TSC87251G1D.	\$210
AD87C251P 44-PLCC	Adapter for 87C251SA/B/P/Q, TSC87251G1/2, TSC87251G1D.	\$210
AD87C451D 64-DIP	Adapter for 87C451.	\$210
AD87C451P 68-PLCC	Adapter for 87C451, 87C453.	\$210
AD87C530P 52-PLCC	Adapter for 87C530.	\$210
AD87C550P 44-PLCC	Adapter for 87C550.	\$210
AD87C552P 68-PLCC	Adapter for 87C552, 87C554.	\$210
AD87C552Q 80-QFP	Adapter for 87C552.	\$380
AD87C554Q 64-LQFP	Adapter for 87C554 LQFP.	\$380
AD87C576D 40-DIP	Adapter for 87C576.	\$210
AD87C592P 68-PLCC	Adapter for 87C592.	\$210
AD87C598Q 80-QFP	Adapter for 87CE598, 89CE558, 89CE560.	\$380
AD87C751D 24-SDIP	Adapter for 87C748, 87C750, 87C751.	\$210
AD87C751P 28-PLCC	Adapter for 87C748, 87C750, 87C751.	\$210
AD87C752D 28-DIP	Adapter for 87C749, 87C752.	\$210
AD87C752P 28-PLCC	Adapter for 87C749, 87C752.	\$210

AD87C754D 28-DIP	Adapter for 87C754.	\$210
AD87C754S 28-SSOP	Adapter for 87C754.	\$210
AD87LPC76xD 20-DIP	Adapter for 87LPC762/4/7/8/9.	\$210
AD87LPC76xS 20-SO	Adapter for 87LPC762/4/7/8/9.	\$210
AD87C766D 42-SDIP	Adapter for 87C766.	\$210
AD87C770D 52-SDIP	Adapter for 87C770.	\$210
AD87CL880Q 64-QFP	Adapter for 87CL880 Obsolete.	\$380
AD87CL881Q 44-QFP	Adapter for 87CL881 Obsolete.	\$380
AD87CL882S 32-SO	Adapter for 87CL882 Obsolete.	\$380
AD87CL883S 28-SO	Adapter for 87CL883/4/6/7 Obsolete.	\$380
AD87CL888T 48-TSOP	Adapter for 87CL888, OM6405 Obsolete.	\$380
AD87C054D 42-SDIP	Adapter for 87C054, 87C055.	\$210
AD89C1051D 20-DIP	Adapter for 89C1051, 89C2051, 89C4051.	\$210
AD89C1051S 20-SO	Adapter for 89C1051, 89C2051, 89C4051.	\$210
AD3755AD 28-DIP	Adapter for PCD3745A, PCD3755/6A.	\$380
AD3755AS 28-SO	Adapter for PCD3745A, PCD3755/6A.	\$380
AD3755AQ 32-QFP	Adapter for PCD3745A, PCD3755/6A.	\$380
AD5007LQ 48-LQFP	Adapter for PCA5007/10 Obsolete.	\$380
AD5009LQ 80-LQFP	Adapter for PCA5009 Obsolete.	\$380
AD5097Q 100-QFP	Adapter for PCA5097 Obsolete.	\$380
AD509x7LQ 80-LQFP	Adapter for PCD50917/27/37/57.	\$380
AD6002Q 80-QFP	Adapter for PCD6002.	\$380
AD89LPC900P 28-PLCC	Adapter for P89LPC9xx.	\$210

33. MP-JTAG - Programmer for Philips Telecom Microcontrollers

PRODUCT	DESCRIPTION	PRICE
MP-JTAG	JTAG Programmer for Philips Telecom microcontrollers including: <ul style="list-style-type: none"> • Programmer • Software • Cables and User Manual Note: Adapters are not included in the price.	\$6900

MP-JTAG ADAPTERS		
PRODUCT	DESCRIPTION	PRICE
AD-710Q	QFP-80 Package	\$800
AD-712Q	QFP-80 Package	\$800
AD-712EB	BGA-134 Package	\$800
AD-716Q	QFP-100 Package	\$800
AD-718Q	QFP-64 Package	\$800
AD-750B	BGA-81 Package	\$800

34. MP-UNIV – Universal Programmer

PRODUCT	DESCRIPTION	PRICE
MP-UNIV	Universal Programmer supplied with: <ul style="list-style-type: none"> • MP-UNIV Universal Programmer. • User software and Manual. • USB Communication cable. • ADP-EE Adapter for: DIP till 48-pin, PLCC 32-28, PLCC 32-32, PLCC-44 for 8051 microcontrollers, QFP-44 for 8051 microcontrollers 	\$1590

MP-UNIV ADAPTERS, GANG BASE AND GANG HEADS		
PRODUCT	DESCRIPTION	PRICE
MP-44SO44D	Universal Adapter - supports all 44-SOP type devices.	\$250
MP-48TS48D	Universal Adapter - supports all 48-TSOP devices.	\$250
MP-8G–HD	Universal 8 Gang Base with 4 slots to fit 4-Heads	\$490

HD1-32DP	Gang Head - Up to 32-DIP E(E)PROM, Flash	\$220
HD1-32PL	Gang Head - All 32-PLCC E(E)PROM, Flash	\$230
HD2-48ST	Gang Head - SAMSUNG KM5MU0820/1620 48-STSOP	\$380
HD3-48ST	Gang Head - AMD(29Fx00), Intel(28Fx00B3), etc. 48-TSOP	\$380
HD4-44PS	Gang Head - AMD (29Fx00), Intel (28Fx00), etc. 44-PSOP	\$380
HD-48DP	Gang Head - 16-bit E(E)PROM, up to 42- DIP	\$380
HD-40DP	Gang Head - MPU51(87C51/52, 89C51/52), 40-DIP	\$350
HD7-44PL	Gang Head - 16-bit EEPROM, 27C1024/4096/ 29C1024,44-PLCC	\$390
HD8-44PL	Gang Head - MPU51(87C51/52,89C51/52), 44-PLCC	\$390
HD9-24DP	Gang Head - GAL 16V8 24-DIP	\$380
HD9-20PL	Gang Head - GAL 16V8 20- PLCC	\$220
HD10-44PS	Gang Head - OKI R27V1602D/1652D	\$380
HD11-48TS	Gang Head - SAMSUNG NAND FLASH 128 Mbit, 48-TSOP	\$380
HD12-44TS	Gang Head - SAMSUNG NAND FLASH 128 Mbit, 44- TSOP	\$380
HD13-20DP	Gang Head - Atmel AT89C1051/2051, 20-DIP	\$220
HD13-20PS	Gang Head - Atmel AT89C1051/2051, 20-PSOP	\$260
HD14-40TS	Gang Head - AMD AM29LV002/4/8, 40- TSOP	\$380
HD15-18DP/PS	Gang Head - PIC16C83/84, 16F83/84, 16C6x/7x 28-DIP	\$220
HD16-48UBGA	Gang Head - Intel GT28F1603/320C3-B/T for 48-UBGA	\$580
HD17-20SP	Gang Head - Philips 87CLPC762/764 for 20-SOP	\$280
HD18-44TQ	Gang Head - MPU51(87C51/52, 89C51/52), 44-TQFP	\$360
HD20-44PL	Gang Head - Atmel At27C800, STM27C800, 44-PLCC	\$380
HD21-32TS	Gang Head - 32-pin E(E)PROM 32-TSOP 20mm	\$280
HD22-44TQ	Gang Head - Lattice ISPLSI2032VE 44-QFP	\$360
HD23-32STS	Gang Head - 32- E(E)PROM 32-STSOP 14mm	\$280
HD24-48FBGA	Gang Head - Samsung K8D1616U(B/T) 48-BGA	\$500

35. DS-300 –Development Tool for PSD-3XX Devices

PRODUCT	DESCRIPTION	PRICE
DS-300	Emulator with 44-PLCC Header, PSD-MAP Configuration Software, User Manual and RS-232 cable – Windows XP	\$3990
PSD-MAP	Configuration Software for PSD-3XX (DS-300 includes it).	\$690

Adapters

36. Emulation Adapters

PRODUCT	DESCRIPTION	PRICE
ADP-20D	40-DIP to 20-DIP Adapter for Atmel microcontrollers	\$210
ADP-20S	20-DIP to 20-SO Adapter	\$210
ADP-24D	28-DIP to 24-DIP Adapter	\$210
ADP-28P	28-DIP to 28-PLCC Adapter	\$210
ADP-28P-751	28-DIP to 28-PLCC Adapter for 87C750/1 microcontrollers	\$210
ADP-40D	44-PLCC to 40-DIP Adapter for In-Circuit emulation of microcontrollers with DIP package.	\$210
ADP-44P	40-DIP to 44-PLCC Adapter	\$210
ADP-44P-E	44-PLCC to 44-PLCC Adapter Extender	\$210
ADP-44Q	40-DIP to 44-QFP Adapter	\$390
ADP-44Q-P	44-PLCC to 44-QFP Adapter	\$390
ADP-48Q	Row of pins or pads to 48-LQFP Adapter	\$1590
ADP-56V	Row of pins to 56-VSO Adapter for DS-51, Probe C-580	\$990
ADP-64Q	Row of pins to 64-QFP Adapter for DS-51, Probe C-580	\$1590
ADP-64LQ	68-PLCC to 64-LQFP Adapter for DS-51, Probes: C-554Q	\$1590
ADP-68P-E	68-PLCC to 68-PLCC/PGA Adapter Extender	\$290
ADP-80Q	Row of pins to 80-QFP Adapter	\$1590
ADP-80Q-EB	Adapter for 80C186EB-PQFP	\$1590
ADP-100LQ	Row of pins to 100-QFP Adapter for Probes: C-509Q, C-517Q	\$1590

ADP-100Q-SMC	Adapter for 80C186EC-PQFP	\$1590
ADP-100Q-AMP	Adapter for 80C186EC-PQFP	\$1590
ADP-100Q-TEX	Adapter for 80C186EC-PQFP	\$1590
ADP-100Q-SOL	Adapter for 80C186EC-PQFP	\$1590
ADP-100J-SMC	Adapter for 80C186EC-EIAJ	\$1590
ADP-100J-SOL	Adapter for 80C186EC-EIAJ	\$1590
ADP-132Q	Row of pins to 386ET 132-QFP Adapter	\$1590

37. Programming Adapters

PRODUCT	DESCRIPTION	PRICE
PLCC or SO or TSSOP or QFP to DIP	Programming sockets with PLCC (or SO or TSSOP or QFP) socket on the top and DIP rows of pins on the bottom to plug into a DIP socket of the programmer.	Call Ceibo
ADP-EE	Adapter for DIP till 48-pin, PLCC 32-28, PLCC 32-32, PLCC- 44 for 8051 microcontrollers, QFP-44 for 8051 microcontrollers	\$390

38. Socket Converters and Soldering Adapters

PRODUCT	DESCRIPTION	PRICE
PLCC to PLCC	28,32,44,52,68,84-PLCC to PLCC. Top: PLCC socket. Bottom: PLCC plug that fits into a PLCC socket of the user board.	\$210
PGA to PLCC	28,32,44,52,68,84-PGA to PLCC. Top: PGA socket. Bottom: PLCC plug that fits into a PLCC socket of the user board.	\$210
DIP or shrink DIP to PLCC	20,28,32,44,68 PLCC. Top: DIP socket. Bottom: PLCC plug that fits into a PLCC socket of the user board.	\$210
PLCC to DIP or shrink DIP	68-64, 52-56 PLCC to DIP. Top: PLCC socket. Bottom: DIP plug that fits into a DIP socket of the user board.	\$210
PLCC to PGA	28,32,44,52,68,84 PLCC to PGA. Top: PLCC footprint to solder a PLCC chip. Bottom: PGA plug that fits into a PGA socket of the user board.	\$50
6-8 DIP to SOP/SO/SOIC or SOJ	6,8 DIP to SO. Top: DIP socket. Bottom: SO soldering pins to solder to the user board.	\$50

14-20 DIP to SOP/SO/SOIC or SOJ	14,16,18,20 DIP to SO. Top: DIP socket. Bottom: SO soldering pins to solder to the user board.	\$100
24-48 DIP to SOP/SO/SOIC or SOJ	24,28,32,40,44,48 DIP to SO. Top: DIP socket. Bottom: SO soldering pins to solder to the user board.	\$210
SOP/SO/SOIC or SOJ to DIP	6 to 48 SO to DIP. Top: footprint to solder a SO chip. Bottom: DIP plug that fits into a DIP socket of the user board.	\$50
Q1000/QFP Modules	QFP soldering modules with QFP solder base. Available for many packages.	Call Ceibo
Q1001/QFP Solder Adapter	QFP solder base for Q1000 modules. Available for many packages.	Call Ceibo

C++/C-Compilers, Assemblers and Internet Solutions

39. Software Tools for 8051 Microcontrollers

PRODUCT	DESCRIPTION	PRICE
C++C51	<p>Complete software package for 8051s including:</p> <ul style="list-style-type: none"> • C++ Compiler, C Compiler, Assembler, Debugger and Simulator. • Upgrade package to add C++ to Keil CA51 and PK51 Compilers (useful only if you want to use Keil code generation instead of the supplied C-Compiler). • uVision IDE and Simulator support if you have PK51 Ver. 7xx or later (useful only if you want to use Keil uVision IDE and Simulator instead of the supplied Ceibo IDE and Simulator). 	\$1890

40. Software Tools for XA Microcontrollers

PRODUCT	DESCRIPTION	PRICE
PC-XA	Professional kit for Windows including: ANSI C-Compiler and Embedded C++ (16M), Assembler (16M), Linker, Librarian and Debugger/Simulator (16M).	\$3990
C++/C-XA	Same as above without Debugger/Simulator.	\$3500
C++/C-XA/64K	64K Assembler, 64K C-Compiler, no Debugger.	\$2900

ASM-XA	16M Assembler, 2K C-Compiler, no Debugger.	\$1990
DEBUG-XA	16M Debugger/Simulator.	\$1190

41. Internet Solutions

PRODUCT	DESCRIPTION	PRICE
CEIBO TCP/IP-51 OBJ	Basic TCP/IP Software. Object files. Royalty free.	\$1690
CEIBO TCP/IP-51 SRC	Internet TCP/IP Software. Source files. Royalty free.	\$4950
CEIBO TCP/IP-51 OBJ/HW-Modem	Basic TCP/IP Software. Object files. Royalty free. Development board with Modem implementing the protocol as design reference.	\$2950
CEIBO TCP/IP-51 SRC/HW-Modem	Internet TCP/IP Software. Source files. Royalty free. Development board with Modem implementing the protocol as design reference.	\$5490
CEIBO TCP/IP-51 OBJ/HW-Ethernet	Basic TCP/IP Software. Object files. Royalty free. Development board with Ethernet Controller implementing the protocol as design reference.	\$3900
CEIBO TCP/IP-51 SRC/HW-Ethernet	Internet TCP/IP Software. Source files. Royalty free. Development board with Ethernet Controller implementing the protocol as design reference.	\$5690

Ordering Information, Terms, Conditions and Warranty

Ordering:

You may contact our sales department to obtain a quote before placing an order. Orders may require 24 hours to process and ship.

Payment:

Several convenient payment options are available: check, credit card and bank transfer. We also extend Net 30 Day Accounts to qualified institutions and companies. A credit application can be obtained by downloading the credit application from Ceibo's web site under "How to Order". When applying for credit, please allow sufficient time to complete the approval process. Delays may be avoided when processing your orders, by submitting payment with your order.

Customer Service:

Customer Service Representatives are available from 8:00a.m. to 5:00p.m. Having your sales order or invoice number available when you call will provide you with the most efficient service.

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To facilitate Ceibo's return processing:

A Ceibo Customer Service Representative must be contacted to obtain an RMA (return authorization number) prior to returning product. Ceibo products may be returned within 15 days of date of invoice and be accompanied by the original invoice number and a brief explanation of the reason for the return.

- **Return freight charge must be prepaid.**
- **Return merchandise in original packaging and in resalable condition.**
- **Software product returns are not accepted.**

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