

# CEIBO – EURO PRICE LIST March 2017

Prices are subject to change without notice. Call Ceibo for the latest price information.

## In-Circuit Emulators

Item	Product	Description	Page
1	DS-51	In-Circuit Emulator for 8051 Family of Microcontrollers	4
2	DS-251	In-Circuit Emulator for 251 Microcontrollers	8
3	DS-XA	In-Circuit Emulator for XA Microcontrollers	9
4	DS-48	In-Circuit Emulator for 8048 Derivatives	10
5	DS-M8	In-Circuit Emulator for Microchip PIC Microcontrollers	11
6	DS-186	In-Circuit Emulator for 80C186/8 Microprocessors	12
7	DS-85	In Circuit Emulator for 8085 Microprocessors	13

## Low Cost and Dedicated Emulators

Item	Product	Description	Page
8	EB-51	Emulator for 80C51 Family of Microcontrollers	13
9	EB-51X2	Emulator for 80C51 and 89C51Rx2 Microcontrollers	14
10	EB-C251	Emulator for Intel and Atmel 251 Microcontrollers	15
11	FE-51RD2	Development System for Atmel AT89C51RD2/ED2/ID2 and others	16
12	FE-51RD2/68P	Development System for Atmel AT89C51RD2-68PLCC and others	16
13	FE-51CC01	Development System for Atmel AT89C51CC01/2, AC2/5115	17
14	FE-51CC03	Development System for Atmel AT89C51CC03/64Q	18
15	FE-SND1	Development System for Atmel AT89C51SND1	18
16	FE-SND2	Development System for Atmel AT89C51SND2	19
17	FE-5121	Development System for Atmel AT89C5121	19
18	FE-5122	Development System for Atmel AT89C5122	20
19	FE-5131A	Development System for Atmel AT89C5131A	20
20	FE-RE2	Development System for Atmel AT89C51IE2/RE2	21
21	FE-C450	Development System for Dallas DS89C450 and 420/430/440	22
22	EB-XAG3	Emulator for Philips XAG3	22
23	EB-XAG49	Emulator for Philips XAG49	23
24	EB-XAS3	Emulator for Philips XAS3	23
25	EB-76X	Emulator for Philips P87LPC76X	24
26	FE-900	Development System for Philips P89LPC9xx	24
27	FE-51MX	Development System for Philips P8xC51MA/B/C, P89C669	25
28	EB-ST62	Emulator for STMicroelectronics ST62xx	26
29	FE-WRD2	Development System for Winbond W7xxxx Microcontrollers	26

## Development Boards

Item	Product	Description	Page
30	DB-51	Development Board for 80C51 Microcontrollers	27
31	DS-750	Development Board for Philips P87C750 Microcontrollers	27

## Motorola, Freescale and ST7 Tools

Item	Product	Description	Page
32	InDartHC08/12	Motorola and Freescale Tools	28
33	InDartST7	ST7 Tools	28

## CAN Products

Item	Product	Description	Page
34	CANxxx	CANbus Display and Data Loggers	29

## Programmings, ROM Emulators, Logic Analyzers and PSD Tools

Item	Product	Description	Page
35	MP-51	EPROM, Flash and Microcontroller Programmer	29
36	MP-JTAG	Programmer for Philips Telecom Microcontrollers	32
37	MP-UNIV	Universal Programmer	33
38	DS-300	Development Tool for PSD-3XX Devices	34
39	MULTIROM	ROM Emulator	34
40	PA4032A	Logic Analyzer	35

## Adapters

Item	Product	Description	Page
41	Emulation	Emulator Adapters for Many Packages	35
42	Programming	Programming Adapters for Many Packages	36
43	Converters	Socket Converters and Soldering Adapters for Many Packages	37

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

Item	Product	Description	Page
44	8051C/C++	Keil Compilers, C++ Compiler for 8051, Upgrades	38
45	XA C/C++	C/C++ Compiler, Assembler, Simulator for Philips XA	38
46	RKIT-ST6	C-Compiler, Assembler, Simulator for ST62	38
47	TCP/IP-51	Software and Hardware Internet Solutions	39

**Ordering Information, Terms, Conditions and Warranty.....Page 40**

## In-Circuit Emulators

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

DS-51 COMPLETE SYSTEMS		
PRODUCT	DESCRIPTION	PRICE
<b>DS-51LV</b>	Complete Standard System, including: <ul style="list-style-type: none"> <li>• In-Circuit Emulator with 64 Kbyte Breakpoints</li> <li>• <b>64Kbyte</b> Internal Code Memory and 32K Trace</li> <li>• Personality Probe <b>P-C51LV</b> for 8051 microcontrollers, <b>3/5V, 6/12</b> clocks/cycle</li> <li>• <b>44-PLCC</b> Emulation Header</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€3990
<b>DS-51LV/ 512K</b>	Complete Standard System, supporting all memory banking options and including: <ul style="list-style-type: none"> <li>• In-Circuit Emulator with 512 Kbyte Breakpoints</li> <li>• <b>512Kbyte</b> Internal Code Memory and 32K Trace</li> <li>• Personality Probe <b>P-C51LV</b> for 8051 microcontrollers, <b>3/5V, 6/12</b> clocks/cycle</li> <li>• <b>44-PLCC</b> Emulation Header</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€4990

DS-51 SYSTEMS WITHOUT PERSONALITY PROBES		
PRODUCT	DESCRIPTION	PRICE
<b>DS-51 without Personality Probe</b>	Standard System, including: <ul style="list-style-type: none"> <li>• In-Circuit Emulator with 64 Kbyte Breakpoints</li> <li>• <b>64Kbyte</b> Internal Code Memory and 32K Trace</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€3300
<b>DS-51/ 512K without Personality Probe</b>	Standard System, supporting all memory banking options and including: <ul style="list-style-type: none"> <li>• In-Circuit Emulator with 512 Kbyte Breakpoints</li> <li>• <b>512Kbyte</b> Internal Code Memory and 32K Trace</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€3990

<b>PERSONALITY PROBES AND EMULATION HEADERS FOR DS-51</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>P-C51LV</b>	Personality Probe for DS-51- Spare Probe (always supplied with DS-51LV or DS-51LV/512K in the standard configuration). <ul style="list-style-type: none"> <li>Supported devices: <b>8051</b>, 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, <b>P89C51RD2</b>, <b>P89C66X</b> and many others with <b>6 or 12 clocks/cycle, 3V and 5V</b>.</li> <li>Includes <b>44-PLCC</b> Emulation Header.</li> </ul>	€1590
<b>P-C51xD2</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Atmel <b>AT89C51RD2/ID2/ED2</b>, <b>AT89C51RC2/IC2/EC2</b>, <b>Philips/NXP P89(L)V66X/P89(L)V51RX2</b> (factory setup) and others with <b>6 or 12 clocks /cycle, 3V and 5V</b></li> <li>Includes <b>44-PLCC</b> Emulation Header.</li> </ul>	€1590
<b>P-C51xD2/68P</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Atmel <b>AT89C51RD2/ID2/ED2</b>, <b>AT89C51RC2/IC2/EC2</b> and others with <b>6 or 12 clocks /cycle, 3V and 5V in 68-PLCC package</b>.</li> <li>Includes H-51-68P – <b>68-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C055</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Philips 83C054, 87C054, 83C055, <b>87C055</b>.</li> <li>Includes H-055-42S - <b>42-SDIP</b> Emulation Header.</li> </ul>	€1890
<b>P-C152</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Intel <b>80152</b>.</li> <li>Includes H-152-68P - <b>68-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C323</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Dallas <b>DS80C323</b> at <b>3.3V</b>.</li> <li>Includes H-51-40D – <b>40-DIP</b> Emulation Header.</li> </ul>	€1890
<b>P-C451</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Philips <b>80C451</b>, 83C451, 87C451, 87C453.</li> <li>Includes H-451-68P – <b>68-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C501</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Siemens/Infineon <b>SAB-C501</b>.</li> <li>Includes H-C501-44P - <b>44-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C504</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Siemens/Infineon <b>SAB-C504</b>.</li> <li>Includes H-C504-44Q - <b>44-QFP</b> Emulation Header.</li> </ul>	€1890
<b>P-C505C</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Siemens/Infineon <b>SAB-C505C in 44-QFP</b>.</li> <li>Includes H-C505-44Q - <b>44-QFP</b> Emulation Header.</li> </ul>	€1890
<b>P-C505CA</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>Supported devices: Siemens/Infineon <b>SAB-C505CA in 44-QFP</b>.</li> </ul>	€1890

	<ul style="list-style-type: none"> <li>• Includes H-C505-44Q - <b>44-QFP</b> Emulation Header.</li> </ul>	
<b>P-C505L</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon <b>SAB-C505L in 80-QFP</b>.</li> <li>• Needs ADP-80Q /C505 <b>not included</b> – Price: €1590.</li> </ul>	€1890
<b>P-C508</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon <b>SAB-C508 in 64-QFP</b>.</li> <li>• Needs ADP-64Q /C508 <b>not included</b> – Price: €1590.</li> </ul>	€1890
<b>P-C509Q</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon <b>SAB-C509 in 100-QFP</b>.</li> <li>• Needs ADP-100Q /C509 <b>not included</b> – Price: €1590.</li> </ul>	€1890
<b>P-C513</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon <b>SAB-C513</b>.</li> <li>• Includes H-C513-44P - <b>44-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C515P</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon <b>SAB-C515 in 68 PLCC</b>.</li> <li>• Includes H-C515-68P - <b>68-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C515Q</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon <b>SAB-C515 in 80-QFP</b>.</li> <li>• Needs ADP-80Q /C515 <b>not included</b> – Price: Price: €1590.</li> </ul>	€1890
<b>P-C517P</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon <b>SAB-C517 in 84 PLCC</b>.</li> <li>• Includes H-C517-84P - <b>84-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C517Q</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon <b>SAB-C517 in 100-QFP</b>.</li> <li>• Needs ADP-100Q /C517 <b>not included</b> – Price: Price: €1590.</li> </ul>	€1890
<b>P-C517</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Siemens/Infineon 80512, 80532, 80C515, 80C515A, 83C515A, 80C535, 80C517, 80C517A, 83C517A, <b>80C537</b>.</li> <li>• Includes one of the available headers (HD-517-40D, HD-517-68P or HD-517-84P), an additional header costs €210.</li> </ul>	€1890
<b>H-517-40D</b>	<b>40- DIP</b> Emulation Header for Probe P-C517.	€210
<b>H-517-68P</b>	<b>68- PLCC</b> Emulation Header for Probe P-C517.	€210
<b>H-517-84P</b>	<b>84- PLCC</b> Emulation Header for Probe P-C517.	€210
<b>P-C530</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Dallas 80C310, 80C320, 80C520, 87C520, <b>87C530</b>.</li> <li>• <b>Includes one</b> of the available headers (HD-530-40D, HD-530-44P or HD-530-52P), an additional <b>header</b> costs €210.</li> </ul>	€1890
<b>H-530-40D</b>	<b>40-DIP</b> Emulation Header for Probe P-C530.	€210
<b>H-530-44P</b>	<b>44-PLCC</b> Emulation Header for Probe P-C530.	€210
<b>H-530-52P</b>	<b>52-PLCC</b> Emulation Header for Probe P-C530.	€210

<b>P-C550</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips <b>80C550</b>, 83C550, 87C550 in 44-PLCC package.</li> <li>• Includes H-C550-44P - <b>44-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-DS550R</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Dallas <b>DS87C550</b> in ROMess mode only.</li> <li>• Includes H-DS550-68P - <b>68-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C554P</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips 80C552, 83C552, <b>87C552</b>, 87C554 in 68-PLCC, 80C562, 83C562.</li> <li>• Includes H-552-68P - <b>68-PLCC</b> Emulation Header.</li> </ul>	€1890
<b>P-C554Q</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips 80C554, 83C554, <b>87C554</b>, all of them in 64-LQFP.</li> <li>• Includes H-554-64Q - <b>64-LQFP</b> Emulation Header and Adapter.</li> </ul>	€2890
<b>P-C558</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips 80C557, <b>8xC558</b>, 8xC559.</li> <li>• Includes H-558-80R Emulation Header (needs ADP-80Q /C558 <b>not included</b> – Price: Price: €1590).</li> </ul>	€2890
<b>P-C575</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips <b>80C575</b>, 83C575, 87C575.</li> <li>• Includes H-C51-40D - <b>40-DIP</b> Emulation Header.</li> </ul>	€2890
<b>P-C591</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips <b>P8xC591</b>.</li> <li>• Includes H-C591-44P - <b>44-PLCC</b> Emulation Header.</li> </ul>	€2890
<b>P-C592</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips 80C592, 83C592, <b>87C592</b>.</li> <li>• Includes H-C592-68P - <b>68-PLCC</b> Emulation Header.</li> </ul>	€2890
<b>P-C598</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips 80C598, 83C598, <b>87C598</b>.</li> <li>• Includes H-598-80R Emulation Header (needs ADP-80Q /C598 <b>not included</b> – Price: Price: €1590).</li> </ul>	€2890
<b>P-C752</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Philips 83C748, 87C748, 83C749, 87C749, 83C750, 87C750, 83C751, 87C751, 83C752, <b>87C752</b>.</li> <li>• Includes H-C752-28D - <b>28-DIP</b> Emulation Header.</li> </ul>	€2890
<b>P-SND1</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Atmel AT80C51SND1 and AT80C5132.</li> <li>• 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 <b>not included</b> – Price: Price: €1590. Needs ADP-84P/SND1 for 84-PLCC support and it is <b>not included</b> – Price: €210.</li> </ul>	€2890
<b>P-W77</b>	Personality Probe for DS-51 <ul style="list-style-type: none"> <li>• Supported devices: Winbond <b>W77C/E/LE/xx</b> Turbo-51.</li> <li>• Includes H-C51-44P - <b>44-PLCC</b> Emulation Header.</li> </ul>	€2890

<b>P-W78</b>	Personality Probe for DS-51 • Supported devices: Winbond <b>W78C/E/xx</b> . • Includes H-C51-44P - <b>44-PLCC</b> Emulation Header.	€2890
--------------	---	-------

<b>DS-51 ADAPTERS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>ADP-20D</b>	40-pin DIP to 20-pin DIP Adapter for Atmel microcontrollers	€210
<b>ADP-24D</b>	28-pin DIP to 24-pin DIP Adapter	€210
<b>ADP-28P</b>	28-pin DIP to 28-pin PLCC Adapter	€210
<b>ADP-28P-751</b>	28-pin DIP to 28-pin PLCC Adapter for Philips 87C750/1	€210
<b>ADP-44P</b>	<b>40-pin DIP to 44-pin PLCC</b> Adapter	€210
<b>ADP-44P-E</b>	44-pin PLCC to 44-pin PLCC Adapter Extender	€210
<b>ADP-44Q</b>	<b>40-pin DIP to 44-pin QFP</b> Adapter	€390
<b>ADP-44Q-P</b>	<b>44-pin PLCC to 44-pin QFP</b> Adapter	€390
<b>ADP-56V</b>	Row of pins to 56-pin VSO Adapter for DS-51, Probe P-C580	€990
<b>ADP-64Q</b>	Row of pins to 64-pin QFP Adapter for DS-51, Probe PC580	€1590
<b>ADP-64LQ</b>	68-pin PLCC to 64-pin LQFP Adapter for DS-51, Probe P-C554Q	€1590
<b>ADP-80Q</b>	Row of pins to 80-pin QFP Adapter	€1590
<b>ADP100Q</b>	Row of pins to 100-pin QFP Adapter	€1590
<b>ADP-100LQ</b>	Row of pins to 100-pin QFP Adapter for Probe P-C509Q, P-C517Q	€1590

<b>DS-51 ACCESSORIES AND REPLACEMENTS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>DS-51MB</b>	DS-51 Main Board Replacement	€2500
<b>DS-51/512K MB</b>	DS-51/512K Main Board Replacement	€2900
<b>DS-51/512K Upgrade</b>	DS-51 to DS-51/512K Mother Board Replacement with 512K banking.	€2100
<b>FC-60</b>	Spare 60-pin flat cable	€100
<b>FC-100</b>	Spare 100-pin flat cable	€210

<b>RS-232</b>	Spare RS-232 Cable	€30
<b>PS5V</b>	Spare Power Supply	€210
<b>Probe PLDs</b>	Spare PLDs for P-C51 (U4 or U5)	€300

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

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

<b>PERSONALITY PROBES AND EMULATION HEADERS FOR DS-251</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>P-251Tx/ 5Volt</b>	Personality Probe for Intel 8xC251Sx/Tx with 44-pin PLCC Header. 5 Volt Emulation. Intel Bond-Out Technology.	€1950
<b>P-251Gx / 5Volt</b>	Personality Probe for Temic / Atmel TCS8xC251Gx with 44-pin PLCC Header. 5Volt Emulation. Bond-Out Technology.	€1950
<b>P-251Tx/ 3Volt</b>	Personality Probe for Intel 8xC251Sx/Tx with 44-pin PLCC Header. 3 Volt Emulation. Intel Bond-Out Technology.	€2950
<b>P-251Gx / 3Volt</b>	Personality Probe for Temic / Atmel TCS8xC251Gx with 44-pin PLCC Header. 3 Volt Emulation. Bond-Out Technology.	€2950

<b>DS-251 ACCESSORIES AND REPLACEMENTS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>TR-251/128k</b>	<b>128Kx128-bit Trace</b> with trigger capabilities and hardware breakpoints (basic unit already includes <b>32Kx128</b> Trace).	€3990
<b>DS-251 MB</b>	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"> <li>• 2MByte Memory</li> <li>• Real-Time Trace</li> <li>• Debug-XA -Debugger and Simulator for Windows</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul> <b>Note:</b> Personality Probe and Emulation Header are <b>not included</b> .	€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.	€1690
P-G49	Personality Probe for Philips XA-G49 with 44-pin PLCC Emulation Header.	€1690
P-S3	Personality Probe for Philips XA-S3 with 68-pin PLCC Emulation Header.	€1690
P-C3	Personality Probe for Philips XA-C3 with 44-pin PLCC Emulation Header.	€1690

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 <b>Philips Telecom</b> 8048 microcontrollers including: <ul style="list-style-type: none"> <li>• 8KByte Memory and 8K Breakpoints</li> <li>• 32K Trace</li> <li>• Debugger and Simulator for Windows</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul> <b>Note:</b> Personality Probe and Emulation Header are <b>not included</b> .	€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.	€2690

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 <b>Microchip</b> PIC microcontrollers including: <ul style="list-style-type: none"> <li>• 128KByte Memory and 32K Trace</li> <li>• Windows Debugger</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul> <b>Note:</b> Personality Probe and Emulation Header are <b>not included</b> .	€3900

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

<b>P-16C554</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC16C554/C556/C558.</li> <li>• Includes HD18D, HD20D Emulation Header.</li> </ul>	€850
<b>P-16C61</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC16C61.</li> <li>• Includes HD18D Emulation Header.</li> </ul>	€850
<b>P-16C622</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC16C620/C621/C622.</li> <li>• Includes HD18D Emulation Header.</li> </ul>	€850
<b>P-16C77</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC16C66/C67/C76/C77.</li> <li>• Includes HD28D, HD28SD, HD40D, HD44P Emulation Header.</li> </ul>	€850
<b>P-16C711</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC16C70/C71/C71A/C710/C711.</li> <li>• Includes HD18D Emulation Header.</li> </ul>	€850
<b>P-16C715</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC16C715.</li> <li>• Includes HD18D Emulation Header.</li> </ul>	€850
<b>P-16C74</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC16C62/C63/C64/C65/C72/C73/C74.</li> <li>• Includes HD28D, HD28SD, HD40D, HD44P Emulation Header.</li> </ul>	€850
<b>P-16C84</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC16C83/C84.</li> <li>• Includes HD18D Emulation Header.</li> </ul>	€850
<b>P-17C02</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC17C42/C43/C44.</li> <li>• Includes HD40D, HD44P Emulation Header.</li> </ul>	€850
<b>P-17C03</b>	Personality Probe for DS-M8 <ul style="list-style-type: none"> <li>• Supported devices: PIC17C752/756.</li> <li>• Includes HD68P Emulation Header.</li> </ul>	€850

<b>DS-M8 ACCESSORIES AND REPLACEMENTS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>DS-M8 MB</b>	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
<b>DS-186</b>	In-Circuit Emulator including: <ul style="list-style-type: none"> <li>• 1MByte Memory</li> <li>• Power Supply, USB Cable and User Manual</li> </ul> <b>Note:</b> Paradigm Software, Trace and Personality Probe are <b>not included</b> .	€9900

TRACE, PERSONALITY PROBES AND EMULATION HEADERS FOR DS-186		
PRODUCT	DESCRIPTION	PRICE
<b>A-86</b>	Personality Probe and Emulation Header for <b>8086</b> , 8088, NEC V20 and NEC V30. <ul style="list-style-type: none"> <li>• Includes 40-DIP Emulation Header.</li> </ul>	€1990
<b>A-186</b>	Personality Probe and Emulation Header for <b>80C186/8/EA/XL</b> . <ul style="list-style-type: none"> <li>• Includes 68-PLCC Emulation Header.</li> </ul>	€1990
<b>A-186EB</b>	Personality Probe and Emulation Header for Intel <b>80C186/8EB</b> . <ul style="list-style-type: none"> <li>• Includes 84-PLCC Emulation Header.</li> </ul>	€1990
<b>ADP-80Q-EB</b>	Adapter for <b>80C186EB</b> and 80C188EB in 80-PQFP package.	€1590
<b>A-186EC</b>	Personality Probe and Emulation Header for Intel <b>80C186/8EC</b> . <ul style="list-style-type: none"> <li>• Includes Emulation Header without 100-pin QFP adapter.</li> </ul> <b>Note:</b> ADP-186EC does <b>not</b> 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).	€1490
<b>ADP-100Q-SMC</b>	Adapter for <b>80C186EC</b> and 80C188EC in 100-PQFP package.	€1590
<b>ADP-100Q-AMP</b>	Adapter for <b>80C186EC</b> and 80C188EC in 100-PQFP package.	€1590
<b>ADP-100Q-TEX</b>	Adapter for <b>80C186EC</b> and 80C188EC in 100-PQFP package.	€1590
<b>ADP-100Q-SOL</b>	Adapter for <b>80C186EC</b> and 80C188EC in 100-PQFP package.	€1590
<b>ADP-100J-SMC</b>	Adapter for <b>80C186EC</b> and 80C188EC in 100-EIAJ package.	€1590
<b>ADP-100J-SOL</b>	Adapter for <b>80C186EC</b> and 80C188EC in 100- EIAJ package.	€1590
<b>A-V25</b>	Personality Probe and Emulation Header for NEC <b>V25</b> . <ul style="list-style-type: none"> <li>• Includes 84-PLCC Emulation Header.</li> </ul>	€1590

<b>ADP-V25-QFP</b>	Adapter for NEC <b>V25</b> from 84-PLCC to 80-QFP.	€1590
<b>A-V50</b>	Personality Probe and Emulation Header for NEC V40 and <b>V50</b> . • Includes 68-PLCC Emulation Header.	€1590

<b>DS-186 SOFTWARE</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>Paradigm IDE</b>	PSC01 - Paradigm C++ Pro/Real - Locate, IDE, C/C++, support for Intel, Borland, Microsoft, etc.	€2490

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

<b>DS-85 COMPLETE SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>DS-85</b>	Complete Standard System for <b>8085</b> including: <ul style="list-style-type: none"> <li>• In-Circuit Emulator with 64 Kbyte Breakpoints</li> <li>• 64Kbyte Memory and 32KX32 Trace</li> <li>• <b>40-DIP</b> Emulation Header</li> <li>• <b>NEW Windows Software</b></li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€9990

## Low Cost and Dedicated Emulators

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

<b>EB-51 COMPLETE SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-51</b>	Complete System, including: <ul style="list-style-type: none"> <li>• 3V/5V In-Circuit Emulator</li> <li>• <b>64Kbyte</b> Internal Code Memory</li> <li>• <b>40-DIP</b> Emulation Header</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€1290

<b>EB-51 ACCESSORIES AND REPLACEMENTS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-51-320</b>	Upgrade kit to support Dallas 80C320 and 80C323 microcontrollers including debugger and hardware parts.	€210
<b>ADP-20D</b>	40-DIP to 20-DIP Adapter for In-Circuit emulation of 20-DIP devices. Fits on EB-51 emulation header.	€210
<b>ADP-44P</b>	40-DIP to 44-PLCC Adapter for In-Circuit emulation of 44-PLCC devices. Fits on EB-51 emulation header.	€210
<b>ADP-44Q</b>	40-DIP to 44-QFP Adapter for In-Circuit emulation of 44-QFP devices. Fits on EB-51 emulation header.	€390
<b>B-552EB</b>	Daughter board for Philips 8XC552 emulation. Fits on EB-51.	€210
<b>H-552EB-68P</b>	68-Pin PLCC emulation header for EB-51 used to in-circuit emulation of Philips 8XC552.	€210
<b>MP-51RD2</b>	Microcontroller Programmer	€120
<b>EB-USB</b>	USB Adapter	€120

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

<b>EB-51X2 BASIC SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-51X2</b>	System including: <ul style="list-style-type: none"> <li>• 3V/5V and 6/2 clocks/cycle In-Circuit Emulator</li> <li>• <b>64Kbyte</b> Internal Code Memory</li> <li>• <b>Real-Time Trace</b></li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul> <b>Note: Daughter Boards, Emulation Headers, Flat Cables and Adapters are not included</b> in the price. A typical system consists of EB-51x2, B-Rx2, FC-60 and H-44P (Total price €1740).	€1990

<b>EB-51X2 ACCESSORIES AND REPLACEMENTS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>B-Rx2</b>	<b>Daughter Board</b> for EB-51x2 supporting <b>89C51RB2/C2/D2</b> , 89C660/2/4/8 and others. Needs EB-51x2, FC-60 and H-44P (or	€400

	H-40D) to complete the kit.	
<b>B-554</b>	<b>Daughter Board</b> for EB-51x2 supporting Philips 8xC552, 8xC554 in 68-PLCC package. Needs EB-51x2, FC-68P and H-68P to complete the kit.	€400
<b>B-554Q</b>	<b>Daughter Board</b> 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.	€900
<b>B-591</b>	<b>Daughter Board</b> for EB-51x2 supporting Philips 80C591, 83C591, 87C591 in 44-PLCC package. Needs EB-51x2, FC-60 and H-44P to complete the kit.	€600
<b>H-44P</b>	<b>Emulation Header</b> 44-PLCC (needs FC-60).	€210
<b>H-40D</b>	<b>Emulation Header</b> 40-DIP (needs FC-60).	€210
<b>H-68P</b>	<b>Emulation Header</b> 68-PLCC (needs FC-68).	€210
<b>FC-60</b>	<b>Flat Cable</b> for 40-DIP and 44-PLCC.	€100
<b>FC-68P</b>	<b>Flat Cable</b> for 68-PLCC and 64-LQFP.	€100
<b>ADP-44Q-P</b>	<b>Adapter</b> - 44-PLCC to 44-QFP. Fits on H-44P.	€390
<b>ADP-64LQ</b>	<b>Adapter</b> - 68-PLCC to 64-LQFP. Fits on H-68P.	€1590
<b>EB-51x2MB</b>	EB-51x2 Main Board Replacement.	€590
<b>EB-PS 5V</b>	Spare Power Supply for EB-51x2.	€70

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

<b>EB-C251 BASIC SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-C251</b>	System including: <ul style="list-style-type: none"> <li>• 3V/5V In-Circuit Emulator for 251 Microcontrollers</li> <li>• <b>256Kbyte</b> Memory</li> <li>• <b>Real-Time Trace</b></li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul> <b>Note: Daughter Boards and Emulation Headers are not included</b> in price. A typical system consists of EB-C251, B-C251Tx and H-44P.	€5900

<b>EB-C251 ACCESSORIES AND REPLACEMENTS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>B-C251Tx</b>	<b>Daughter Board</b> 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>B-C251Gx</b>	<b>Daughter Board</b> 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.	€1290
<b>H-44P</b>	<b>Emulation Header</b> 44-PLCC.	€210
<b>H-40D</b>	<b>Emulation Header</b> 40-DIP.	€210
<b>ADP-44Q-P</b>	<b>Adapter</b> - 44-PLCC to 44-QFP. Fits on H-44P.	€390
<b>EB-C251MB</b>	EB-C251 Main Board Replacement.	€2390
<b>EB-PS 5V</b>	Spare Power Supply for EB-C251.	€70

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

<b>FE-51RD2 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-51RD2</b>	Complete Development System including: <ul style="list-style-type: none"> <li>• Emulator for Atmel AT89C51iC2, AT89C51RB2/C2, AT89C51RD2/ED2, etc.</li> <li>• MP-51RD2 - Microcontroller Programmer</li> <li>• DB-51RD2 - Development Board</li> <li>• 44-PLCC Emulation Header</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€1290

<b>FE-51RD2 ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>ADP-44Q-P</b>	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	€390
<b>ADP-40D</b>	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

<b>FE-51RD2/68 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-51RD2/68P</b>	Complete Development System including: <ul style="list-style-type: none"><li>• Emulator for Atmel AT89C51RD2/ED2/ID2, etc. in 68-PLCC package.</li><li>• MP-51RD2 - Microcontroller Programmer</li><li>• DB-51RD2/68P - Development Board</li><li>• 68-PLCC Emulation Header</li><li>• Windows Software</li><li>• Power Supply, RS-232 Cable and User Manual</li></ul>	€1990

## 13. FE-C51CC01 - Development System for Atmel AT89C51CC01/2, AT89C51AC2/5115

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

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

#### 14. FE-51CC03 - Development System for Atmel AT89C51CC03

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

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

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

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

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

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

## 16. FE-SND2 - Development System for Atmel AT89C51SND2

<b>FE-SND2 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-SND2</b>	Complete Development System including: <ul style="list-style-type: none"> <li>• Emulator for Atmel AT89C51SND2C in CBGA-100 package.</li> <li>• Windows Software</li> <li>• Power Supply, Cables and User Manual</li> </ul>	€1990

## 17. FE-5121 - Development System for Atmel AT89C5121

<b>FE-5121 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-5121</b>	Complete Development System including: <ul style="list-style-type: none"> <li>• Emulator for Atmel AT89C5121 Microcontrollers in 52-PLCC package</li> <li>• Termination Board</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€2990

<b>FE-5121 ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>ADP-24S/5121</b>	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

<b>FE-5122 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-5122</b>	Complete Development System including: <ul style="list-style-type: none"> <li>• Emulator for Atmel AT89C5122 Microcontrollers in 68-PLCC package</li> <li>• Termination Board</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€2490

<b>FE-5122 ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>ADP-28P/5122</b>	68-PLCC to 28-PLCC Adapter for In-Circuit emulation of microcontrollers with 28-PLCC package.	€210
<b>ADP-32Q/5122</b>	68-PLCC to 32-LQFP Adapter for In-Circuit emulation of microcontrollers with 32-LQFP package.	€990
<b>ADP-64Q/5122</b>	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

<b>FE-5131A COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-5131A</b>	Complete Development System including: <ul style="list-style-type: none"> <li>• Emulator for Atmel AT89C5131 and AT89C5131A Microcontrollers in 52-PLCC package</li> <li>• Termination Board</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€2290

<b>FE-5131A ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>UPG-5131A</b>	Emulator upgrade for customers that purchased FE-5131 and need support for AT89C5131A.	€690

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

<b>FE-RE2 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-RE2</b>	Complete Development System including: <ul style="list-style-type: none"> <li>• Emulator for Atmel AT89C51IE2 and AT89C51RE2</li> <li>• MP-51RD2 - Microcontroller Programmer</li> <li>• DB-51RD2 - Development Board</li> <li>• 44-PLCC Emulation Header</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€1990

<b>FE-RE2 ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>ADP-44Q-P</b>	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	€390
<b>ADP-40D</b>	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

<b>FE-C450 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-C450</b>	Complete Development System including: <ul style="list-style-type: none"> <li>• Emulator for Dallas DS89C420/430/440/450</li> <li>• MP-C450 - Microcontroller Programmer</li> <li>• DB-51RD2 - Development Board</li> <li>• 44-PLCC Emulation Header</li> <li>• Windows Software</li> <li>• Power Supply, Cables and User Manual</li> </ul>	€2590

<b>FE-C450 ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>ADP-44Q-P</b>	44-PLCC to 44-QFP Adapter for In-Circuit emulation of microcontrollers with 44-QFP package.	€390
<b>ADP-40D</b>	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

<b>EB-XAG3 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-XAG3</b>	Complete Development System including: <ul style="list-style-type: none"> <li>• Emulator Philips XA-G3; 64K emulation memory</li> <li>• 44-PLCC Emulation Header</li> <li>• Windows Software, 2K C-Compiler and 64K Assembler</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€2990

<b>EB-XAG3 ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-XAMB/G3</b>	EB-XAG3 Main Board replacement.	€850

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

<b>EB-XAG3 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-XAG49</b>	Complete Development System including: <ul style="list-style-type: none"><li>• Emulator Philips XA-G49; 64K emulation memory</li><li>• 44-PLCC Emulation Header</li><li>• Windows Software, 2K C-Compiler and 64K Assembler</li><li>• Power Supply, RS-232 Cable and User Manual</li></ul>	€2990

<b>EB-XAG49 ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-XAMB/G49</b>	EB-XAG49 Main Board replacement.	€850

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

<b>EB-XAG3 COMPLETE DEVELOPMENT SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-XAS3</b>	Complete Development System including: <ul style="list-style-type: none"><li>• Emulator Philips XA-G3; 64K emulation memory</li><li>• 68-PLCC Emulation Header</li><li>• Windows Software, 2K C-Compiler and 64K Assembler</li><li>• Power Supply, RS-232 Cable and User Manual</li></ul>	€2990

<b>EB-XAS3 ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>EB-XAMB/S3</b>	EB-XAS3 Main Board replacement.	€950

## 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"> <li>• 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.</li> <li>• <b>32Kbyte</b> Internal Code Memory</li> <li>• <b>20-DIP</b> Emulation Header</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€1990

EB-76X ACCESSORIES		
PRODUCT	DESCRIPTION	PRICE
EB-76XMB	EB-76X Main Board replacement.	€690
76XBO	76X Bond Out replacement.	€180

## 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"> <li>• 3V/5V In-Circuit Emulator supporting Philips P89LPC9XX based on Bond-Out technology with embedded trace capabilities.</li> <li>• DB-LPC900 – Development Board</li> <li>• MP-LPC900 – Microcontroller Programmer</li> <li>• <b>28-PLCC</b> Emulation Header</li> <li>• Windows Software, 64K C-Compiler and Assembler, 8K C++</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€1990



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

<b>FE-51MX COMPLETE SYSTEM</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>FE-51MX</b>	Complete System including: <ul style="list-style-type: none"> <li>• Emulator for Philips P8xC51MA/B/C, P89C669 in 44-PLCC package based on Bond-Out technology with embedded trace capabilities.</li> <li>• DB-51RD2 – Development Board</li> <li>• 44-PLCC Emulation Header</li> <li>• Windows Software, 64K C-Compiler and Assembler, 8K C++</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€4690

<b>FE-51MX ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>ADP-44Q-P</b>	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"> <li>• 5V and 3.3V Emulator for the ST62 Microcontrollers (<b>One PEB-62xx is necessary but <u>not</u> included; choose one while ordering</b>)</li> <li>• Source-Level Debugger for C and Assembler</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€2590
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"> <li>• Emulator for Winbond W78(L)E516/ E58B/ L58/ E858/ E365/ ERD2 Microcontrollers and others in PLCC-44 package</li> <li>• MP-51RD2 - Microcontroller Programmer</li> <li>• DB-51RD2 - Development Board</li> <li>• 44-PLCC Emulation Header</li> <li>• Windows Software</li> <li>• Power Supply, RS-232 Cable and User Manual</li> </ul>	€1990

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

<b>DB-51 DEVELOPMENT BOARD</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>DB-51</b>	Development Board including: <ul style="list-style-type: none"><li>• 5V and 3.3V board supporting 8051 derivatives (40- DIP, 44- QFP, 44-PLCC) and 8xC552/4 in 68- PLCC package</li><li>• Windows Debugger for C and Assembler</li><li>• Power Supply, RS-232 Cable and User Manual</li></ul>	€990

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

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

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

## Motorola, Freescale and ST7 Tools - inDART

### 32. Motorola and Freescale Tools

**Note:** Prices of these products may not include transportation from country of origin.

PRODUCT	DESCRIPTION	PRICE
inDART-HC08/D	In-Circuit Debugger/Programmer for Motorola 68HC08 Family.	€549
inDART-HC08/AP	Design Kit for Motorola MC68HC908AP.	€299
inDART-HC08/GP	Design Kit for Motorola MC68HC908GP/GT.	€599
inDART-HC08/GZ	Design Kit for Motorola MC68HC908GZ/GR.	€299
inDART-HC08/GZ64	Design Kit for Motorola MC68HC908GZ.	€299
inDART-HC08/JK	Design Kit for Motorola MC68HC908JK.	€299
inDART-HC08/JL	Design Kit for Motorola MC68HC908JL.	€299
inDART-HC08/QY	Design Kit for Motorola MC68HC908QY.	€299
inDART-HCS08/D	In-Circuit Debugger/Programmer for Motorola HCS08 Family.	€249
inDART-HCS08/GB60	Design Kit for Motorola MC9S08GB60.	€299
inDART-HCS08/RG60	Design Kit for Motorola MC9S08RG60.	€299
inDART-HCS12/D	In-Circuit Debugger/Programmer for Motorola HCS12 Family.	€449
inDART-HCS12/C32	Design Kit for Motorola MC9S12C.	€499
inDART-HCS12/DP256	Design Kit for Motorola MC9S12DP.	€499
inDART-HCS12/E128	Design Kit for Motorola MC9S12E.	€499

### 33. ST7 Tools

**Note:** Prices of these products may not include transportation from country of origin.

PRODUCT	DESCRIPTION	PRICE
inDART-ST72C/SK	Starter Kit for STMicroelectronics ST72C Family	€149
inDART-ST72C254	Design Kit for STMicroelectronics ST72C254.	€249
inDART-ST72C334	Design Kit for STMicroelectronics ST72C334.	€249
inDART-ST72F264	Design Kit for STMicroelectronics ST72F26X Family	€299
inDART-STX/264	Design Kit for STMicroelectronics ST72F264.	€299
inDART-STX/500	Design Kit for STMicroelectronics ST FIVE 508 Family.	€299
inDART-STX/521	Design Kit for STMicroelectronics ST72F321/521.	€349
inDART-STX/D	In-Circuit Debugger/Programmer for ST FIVE 508 and ST72F.	€249
inDART-STX/LITE0	Design Kit for STMicroelectronics ST7FLITE0.	€299
inDART-STX/LITE2	Design Kit for STMicroelectronics ST7FLITE2	€299

## CAN Products

### 34. CANbus Display and Data Loggers (Note: Quantity discount available for these products)

PRODUCT	DESCRIPTION	PRICE
251007001	RM-Display 1102	€690
251006002	CANsense I/O Variante Standard	€590
253000010	CAN gateway Starter Kit	€1290
253000011	CAN gateway USB Starter Kit	€1290
253000006	CANlogger Starter Kit	€1395
253003001	CANlogger	€990
253001001	CANview	€690
253001002	CANview Display	€790
253001010	CANview Profibus	€950
253001012	CANviewBluetooth	€1250
253001014	CANview USB	€690
253000005	CANview GSM/GPSIII Starter Kit	€4600
253000008	CANview USB Starter Kit	€950
253000012	CANview Display 1102 Starter Kit with CANview PC Connection	€1790
253000014	CANview Bluetooth Class 2 Starter Kit	€1990

## Programmers, ROM Emulators, Logic Analyzers and PSD Tools

### 35. MP-51 - EPROM, Flash and Microcontroller Programmer

PRODUCT	DESCRIPTION	PRICE
MP-51	MP-51 Programmer including: <ul style="list-style-type: none"> <li>• Software and User manual</li> <li>• Power Supply and , RS-232 Cable</li> </ul> <b>Note: Adapters are not included</b> 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

<b>AD27512P 32-PLCC</b>	Adapter for 2716 to 27512 NMOS and CMOS, AT28C64B.	€210
<b>ADPSD301P 44-PLCC</b>	Adapter for PSD301, PSD301L, PSD302, PSD302L, PSD303, PSD303L, PSD311, PSD311L, PSD312, PSD312L, PSD313, PSD313L.	€210

<b>MICROCONTROLLER ADAPTERS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>AD87C51D 40-DIP</b>	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, SABC513A-2E, SAB-C505CA-4E, SAB-C513A-2E, SAB-C513A-2E, IS89C52, IS89E54/8, IS89E64 and many others in 40-DIP package.	€210
<b>AD87C51P 44-PLCC</b>	Same as above in 44-PLCC package.	€210
<b>AD87C51Q 44-QFP</b>	Same as above in 44-QFP package.	€210
<b>AD87C51GB 68-PLCC</b>	Adapter for 87C51GB.	€210
<b>ADC508MQ-MQFP64</b>	Adapter for SAB C508-4E.	€420
<b>ADC508Q 64-QFP</b>	Adapter for SAB C508.	€420
<b>ADC515Q 80-QFP</b>	Adapter for SAB C515C.	€420
<b>ADXAG3P 44-PLCC</b>	Adapter for PXAG17/27/37.	€210
<b>ADXAG3Q 44-QFP</b>	Adapter for PXAG37.	€210
<b>ADXAG49P 44-PLCC</b>	Adapter for PXAG39/49.	€210
<b>ADXAG49Q 44-QFP</b>	Adapter for PXAG39/49.	€210
<b>ADXAS37P 68-PLCC</b>	Adapter for PXAS37.	€210
<b>ADXAS37Q 80-QFP</b>	Adapter for PXAS37.	€420
<b>AD87CL134D 42-SDIP</b>	Adapter for 87CL134.	€210
<b>AD87CL134Q 44-QFP</b>	Adapter for 87CL134.	€210
<b>AD87C251D 40-DIP</b>	Adapter for 87C251SA/B/P/Q, TSC87251G1/2, TSC87251G1D.	€210

<b>AD87C251P 44-PLCC</b>	Adapter for 87C251SA/B/P/Q, TSC87251G1/2, TSC87251G1D.	€210
<b>AD87C451D 64-DIP</b>	Adapter for 87C451.	€210
<b>AD87C451P 68-PLCC</b>	Adapter for 87C451, 87C453.	€210
<b>AD87C530P 52-PLCC</b>	Adapter for 87C530.	€210
<b>AD87C550P 44-PLCC</b>	Adapter for 87C550.	€210
<b>AD87C552P 68-PLCC</b>	Adapter for 87C552, 87C554.	€210
<b>AD87C552Q 80-QFP</b>	Adapter for 87C552.	€420
<b>AD87C554Q 64-LQFP</b>	Adapter for 87C554 LQFP.	€420
<b>AD87C576D 40-DIP</b>	Adapter for 87C576.	€210
<b>AD87C592P 68-PLCC</b>	Adapter for 87C592.	€210
<b>AD87C598Q 80-QFP</b>	Adapter for 87CE598, 89CE558, 89CE560.	€420
<b>AD87C751D 24-SDIP</b>	Adapter for 87C748, 87C750, 87C751.	€210
<b>AD87C751P 28-PLCC</b>	Adapter for 87C748, 87C750, 87C751.	€210
<b>AD87C752D 28-DIP</b>	Adapter for 87C749, 87C752.	€210
<b>AD87C752P 28-PLCC</b>	Adapter for 87C749, 87C752.	€210
<b>AD87C754D 28-DIP</b>	Adapter for 87C754.	€210
<b>AD87C754S 28-SSOP</b>	Adapter for 87C754.	€210
<b>AD87LPC76xD 20-DIP</b>	Adapter for 87LPC762/4/7/8/9.	€210
<b>AD87LPC76xS 20-SO</b>	Adapter for 87LPC762/4/7/8/9.	€210
<b>AD87C766D 42-SDIP</b>	Adapter for 87C766.	€210
<b>AD87C770D 52-SDIP</b>	Adapter for 87C770.	€210
<b>AD87CL880Q 64-QFP</b>	Adapter for 87CL880 Obsolete.	€420
<b>AD87CL881Q 44-QFP</b>	Adapter for 87CL881 Obsolete.	€420
<b>AD87CL882S 32-SO</b>	Adapter for 87CL882 Obsolete.	€420
<b>AD87CL883S 28-SO</b>	Adapter for 87CL883/4/6/7 Obsolete.	€420
<b>AD87CL888T 48-TSOP</b>	Adapter for 87CL888, OM6405 Obsolete.	€420
<b>AD87C054D 42-SDIP</b>	Adapter for 87C054, 87C055.	€210

<b>AD89C1051D 20-DIP</b>	Adapter for 89C1051, 89C2051, 89C4051.	€210
<b>AD89C1051S 20-SO</b>	Adapter for 89C1051, 89C2051, 89C4051.	€210
<b>AD3755AD 28-DIP</b>	Adapter for PCD3745A, PCD3755/6A.	€420
<b>AD3755AS 28-SO</b>	Adapter for PCD3745A, PCD3755/6A.	€420
<b>AD3755AQ 32-QFP</b>	Adapter for PCD3745A, PCD3755/6A.	€420
<b>AD5007LQ 48-LQFP</b>	Adapter for PCA5007/10 Obsolete.	€420
<b>AD5009LQ 80-LQFP</b>	Adapter for PCA5009 Obsolete.	€420
<b>AD5097Q 100-QFP</b>	Adapter for PCA5097 Obsolete.	€420
<b>AD509x7LQ 80-LQFP</b>	Adapter for PCD50917/27/37/57.	€420
<b>AD6002Q 80-QFP</b>	Adapter for PCD6002.	€420
<b>AD89LPC900P 28-PLCC</b>	Adapter for P89LPC9xx.	€210

### 36. MP-JTAG - Programmer for Philips Telecom Microcontrollers

PRODUCT	DESCRIPTION	PRICE
<b>MP-JTAG</b>	JTAG Programmer for Philips Telecom microcontrollers including: <ul style="list-style-type: none"> <li>• Programmer</li> <li>• Software</li> <li>• Cables and User Manual</li> </ul> <b>Note: Adapters are not included</b> in the price.	€6990

<b>MP-JTAG ADAPTERS</b>		
PRODUCT	DESCRIPTION	PRICE
<b>AD-710Q</b>	QFP-80 Package	€800
<b>AD-712Q</b>	QFP-80 Package	€800
<b>AD-712EB</b>	BGA-134 Package	€800
<b>AD-716Q</b>	QFP-100 Package	€800
<b>AD-718Q</b>	QFP-64 Package	€800
<b>AD-750B</b>	BGA-81 Package	€800



### 37. MP-UNIV – Universal Programmer

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

<b>MP-UNIV ADAPTERS, GANG BASE AND GANG HEADS</b>		
PRODUCT	DESCRIPTION	PRICE
<b>MP-44SO44D</b>	Universal Adapter - supports all 44-SOP type devices.	€275
<b>MP-48TS48D</b>	Universal Adapter - supports all 48-TSOP devices.	€275
<b>MP-8G-HD</b>	Universal 8 <b>Gang Base</b> with 4 slots to fit 4-Heads	€540
<b>HD1-32DP</b>	<b>Gang Head</b> - Up to 32-DIP E(E)PROM, Flash	€240
<b>HD1-32PL</b>	<b>Gang Head</b> - All 32-PLCC E(E)PROM, Flash	€250
<b>HD2-48ST</b>	<b>Gang Head</b> - SAMSUNG KM5MU0820/1620 48-ST SOP	€420
<b>HD3-48ST</b>	<b>Gang Head</b> - AMD(29Fx00), Intel(28Fx00B3), etc. 48-TSOP	€420
<b>HD4-44PS</b>	<b>Gang Head</b> - AMD (29Fx00), Intel (28Fx00), etc. 44-PSOP	€420
<b>HD-48DP</b>	<b>Gang Head</b> - 16-bit E(E)PROM, up to 42- DIP	€340
<b>HD-40DP</b>	<b>Gang Head</b> - MPU51(87C51/52, 89C51/52), 40-DIP	€380
<b>HD7-44PL</b>	<b>Gang Head</b> - 16-bit EEPROM, 27C1024/4096/ 29C1024,44-PLCC	€370
<b>HD8-44PL</b>	<b>Gang Head</b> - MPU51(87C51/52,89C51/52), 44-PLCC	€370
<b>HD9-24DP</b>	<b>Gang Head</b> - GAL 16V8 24-DIP	€420
<b>HD9-20PL</b>	<b>Gang Head</b> - GAL 16V8 20- PLCC	€250
<b>HD10-44PS</b>	<b>Gang Head</b> - OKI R27V1602D/1652D	€420
<b>HD11-48TS</b>	<b>Gang Head</b> - SAMSUNG NAND FLASH 128 Mbit, 48-TSOP	€420
<b>HD12-44TS</b>	<b>Gang Head</b> - SAMSUNG NAND FLASH 128 Mbit, 44- TSOP	€420

<b>HD13-20DP</b>	<b>Gang Head - Atmel AT89C1051/2051, 20-DIP</b>	€240
<b>HD13-20PS</b>	<b>Gang Head - Atmel AT89C1051/2051, 20-PSOP</b>	€280
<b>HD14-40TS</b>	<b>Gang Head - AMD AM29LV002/4/8, 40- TSOP</b>	€420
<b>HD15-18DP/PS</b>	<b>Gang Head - PIC16C83/84, 16F83/84, 16C6x/7x 28-DIP</b>	€240
<b>HD16-48UBGA</b>	<b>Gang Head - Intel GT28F1603/320C3-B/T for 48-UBGA</b>	€640
<b>HD17-20SP</b>	<b>Gang Head - Philips 87CLPC762/764 for 20-SOP</b>	€280
<b>HD18-44TQ</b>	<b>Gang Head - MPU51(87C51/52, 89C51/52), 44-TQFP</b>	€400
<b>HD20-44PL</b>	<b>Gang Head - Atmel At27C800, STM27C800, 44-PLCC</b>	€420
<b>HD21-32TS</b>	<b>Gang Head - 32-pin E(E)PROM 32-TSOP 20mm</b>	€310
<b>HD22-44TQ</b>	<b>Gang Head - Lattice ISPLSI2032VE 44-QFP</b>	€400
<b>HD23-32STS</b>	<b>Gang Head - 32- E(E)PROM 32-STSON 14mm</b>	€310
<b>HD24-48FBGA</b>	<b>Gang Head - Samsung K8D1616U(B/T) 48-BGA</b>	€550

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

PRODUCT	DESCRIPTION	PRICE
<b>DS-300</b>	Emulator with 44-PLCC Header, PSD-MAP Configuration Software, User Manual and RS-232 cable – Windows XP	€2990
<b>PSD-MAP</b>	Configuration Software for PSD-3XX (DS-300 it).	€690

### 39. MULTIROM – ROM Emulator

PRODUCT	DESCRIPTION	PRICE
<b>MultiROM 16L</b>	2.7, 3.3 and 5V ROM Emulator including: <ul style="list-style-type: none"> <li>• One DIP-32 Emulation Pod (23700143)</li> <li>• Power Supply</li> <li>• User manual</li> </ul> <b>Note:</b> for 16-bit Bus you should add another Emulation Pod	€1350

<b>MultiROM ACCESSORIES</b>		
PRODUCT	DESCRIPTION	PRICE
<b>23700132</b>	12V AC/DC Switching Power Adapter	€45
<b>23700143</b>	DIP-32 Emulation Pod	€80

<b>23700144</b>	DIP-40 Emulation Pod	€110
<b>23700145</b>	DIP-32 to PLCC-32 Emulation Adapter (for 512Kbit or smaller)	€180
<b>23700146</b>	DIP-32 to PLCC-32 Emulation Adapter (for 1Mbit devices or larger)	€180
<b>23700147</b>	DIP-40 to PLCC-44 Emulation Adapter	€200
<b>23700149</b>	Interface DLL	€300
<b>23700150</b>	PSOP-44 Emulation Pod (for 29FX00 devices, 16 bit)	€170
<b>23700151</b>	PSOP-44 Emulation Pod (for 29FX00 devices, 8 bit)	€170

#### 40. PA4032A – Logic Analyzer

<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>PA4032A</b>	Logic State Analyzer including: <ul style="list-style-type: none"> <li>• One Logic analyzer 16-Channel Cable</li> <li>• 12V AC/DC Switching Power Adapter</li> <li>• ISA Bus Bi-directional LPT Port</li> <li>• SMD Grabbers (17pcs)</li> </ul>	€1650
<b>PA4032A ACCESSORIES</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>23700131</b>	Additional Logic Analyzer 16-Channel Cable	€40
<b>23700137</b>	SMD Grabber (one piece)	€10
<b>23700133</b>	Communication DLL	€300

#### Adapters

##### 41. Emulation Adapters

<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>ADP-20D</b>	40-DIP to 20-DIP Adapter for Atmel microcontrollers	€210
<b>ADP-20S</b>	20-DIP to 20-SO Adapter	€210
<b>ADP-24D</b>	28-DIP to 24-DIP Adapter	€210
<b>ADP-28P</b>	28-DIP to 28-PLCC Adapter	€210
<b>ADP-28P-751</b>	28-DIP to 28-PLCC Adapter for 87C750/1 microcontrollers	€210

<b>ADP-40D</b>	44-PLCC to 40-DIP Adapter for In-Circuit emulation of microcontrollers with DIP package.	€210
<b>ADP-44P</b>	40-DIP to 44-PLCC Adapter	€210
<b>ADP-44P-E</b>	44-PLCC to 44-PLCC Adapter Extender	€210
<b>ADP-44Q</b>	40-DIP to 44-QFP Adapter	€340
<b>ADP-44Q-P</b>	44-PLCC to 44-QFP Adapter	€340
<b>ADP-56V</b>	Row of pins to 56-VSO Adapter for DS-51, Probe C-580	€990
<b>ADP-64Q</b>	Row of pins to 64-QFP Adapter for DS-51, Probe C-580	€1590
<b>ADP-64LQ</b>	68-PLCC to 64-LQFP Adapter for DS-51, Probes: C-554Q	€1590
<b>ADP-80Q</b>	Row of pins to 80-QFP Adapter	€1590
<b>ADP-80Q-EB</b>	Adapter for 80C186EB-PQFP	€1590
<b>ADP-100LQ</b>	Row of pins to 100-QFP Adapter for Probes: C-509Q, C-517Q	€1590
<b>ADP-100Q-SMC</b>	Adapter for 80C186EC-PQFP	€1590
<b>ADP-100Q-AMP</b>	Adapter for 80C186EC-PQFP	€1590
<b>ADP-100Q-TEX</b>	Adapter for 80C186EC-PQFP	€1590
<b>ADP-100Q-SOL</b>	Adapter for 80C186EC-PQFP	€1590
<b>ADP-100J-SMC</b>	Adapter for 80C186EC-EIAJ	€1590
<b>ADP-100J-SOL</b>	Adapter for 80C186EC-EIAJ	€1590
<b>ADP-132Q</b>	Row of pins to 386ET 132-QFP Adapter	€1590

## 42. Programming Adapters

<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>PLCC or SO or TSSOP or QFP to DIP</b>	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
<b>ADP-EE</b>	Adapter for DIP till 48-pin, PLCC 32-28, PLCC 32-32, PLCC- 44 for 8051 microcontrollers, QFP-44 for 8051 microcontrollers	€430

## 43. Socket Converters and Soldering Adapters

<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>PRICE</b>
<b>PLCC to PLCC</b>	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
<b>PGA to PLCC</b>	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
<b>DIP or shrink DIP to PLCC</b>	20,28,32,44,68 PLCC. Top: DIP socket. Bottom: PLCC plug that fits into a PLCC socket of the user board.	€210
<b>PLCC to DIP or shrink DIP</b>	68-64, 52-56 PLCC to DIP. Top: PLCC socket. Bottom: DIP plug that fits into a DIP socket of the user board.	€210
<b>PLCC to PGA</b>	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.	€55
<b>6-8 DIP to SOP/SO/SOIC or SOJ</b>	6,8 DIP to SO. Top: DIP socket. Bottom: SO soldering pins to solder to the user board.	€55
<b>14-20 DIP to SOP/SO/SOIC or SOJ</b>	14,16,18,20 DIP to SO. Top: DIP socket. Bottom: SO soldering pins to solder to the user board.	€110
<b>24-48 DIP to SOP/SO/SOIC or SOJ</b>	24,28,32,40,44,48 DIP to SO. Top: DIP socket. Bottom: SO soldering pins to solder to the user board.	€210
<b>SOP/SO/SOIC or SOJ to DIP</b>	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.	€55
<b>Q1000/QFP Modules</b>	QFP soldering modules with QFP solder base. Available for many packages.	Call Ceibo
<b>Q1001/QFP Solder Adapter</b>	QFP solder base for Q1000 modules. Available for many packages.	Call Ceibo

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

#### 44. Software Tools for 8051 Microcontrollers

PRODUCT	DESCRIPTION	PRICE
<b>C++C51</b>	<p>Complete software package for 8051s including:</p> <ul style="list-style-type: none"> <li>• C++ Compiler, C Compiler, Assembler, Debugger and Simulator.</li> <li>• <b>Upgrade package to add C++ to Keil CA51 and PK51</b> Compilers (useful only if you want to use Keil code generation instead of the supplied C-Compiler).</li> <li>• 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).</li> </ul>	€1490

#### 45. Software Tools for XA Microcontrollers

PRODUCT	DESCRIPTION	PRICE
<b>PC-XA</b>	Professional kit for Windows including: ANSI C-Compiler and Embedded C++ (16M), Assembler (16M), Linker, Librarian and Debugger/Simulator (16M).	€3990
<b>C++/C-XA</b>	Same as above without Debugger/Simulator.	€3500
<b>C++/C-XA/64K</b>	64K Assembler, 64K C-Compiler, no Debugger.	€2900
<b>ASM-XA</b>	16M Assembler, 2K C-Compiler, no Debugger.	€1990
<b>DEBUG-XA</b>	16M Debugger/Simulator.	€1190

#### 46. Software Tools for ST62 Microcontrollers

PRODUCT	DESCRIPTION	PRICE
<b>Rkit-ST62</b>	ANSI C Compiler, Macro-Assembler, Linker and Simulator/Debugger for ST62 microcontrollers.	€1100

#### 47. Internet Solutions

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

### **Return Policy and Product Liability:**

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.**

Ceibo's sole obligation for products that prove to be defective within 15 days of purchase will be replacement or refund. Ceibo gives no warranty either expressed or implied and specifically disclaims all other warranties, including warranties for merchantability and fitness. In no event shall Ceibo's liability exceed the buyer's purchase price nor shall Ceibo be liable for any indirect or consequential damages.

### **Freight Damage:**

It is important to keep the shipping carton, packing material and parts intact, if you receive merchandise that has been damaged in transit. Please contact Ceibo Customer Service to initiate a claim.

### **Prices/Quantities:**

Prices are subject to change without notice and quantities may be limited.

### **Warranty:**

Two years limited warranty. Parts and labor on all Ceibo products.

**This warranty does not apply to products which have been subject to misuse (including static discharge), neglect, accident, or modification, or which have been altered.**