




LonWorks® Products Resale Price List

Product	Ref.	Description	Price (US\$)	Comments
Integration and Installation Software				
 Turbo Edition LNS Application Developer's Kit	34309	LNS Turbo edition application development kit	3705,75	Used to develop and deploy all types of LNS applications, including LNS tools that commission, configure, monitor, control, diagnose and maintain LonWorks networks, as well as any type of LNS plug-in. Includes LNS server, LNS plug-in wizard device drivers, example applications, utilities for systems running Windows XP, Windows 2000 or Windows Server 2003. Requires separate LNS compatible network interface like PCLTA-21, PCC-10, SLTA-10 or any iLON device shrink wrap SW licence
 Turbo Edition LNS Redistribution Kit	34312	LNS Turbo edition redistribution kit	3705,75	Optional add-on for the 34309 LNS Turbo edition application developer's kit. This kit permits the developer to redistribute LNS server and LNS remote client SW with their LNS applications. This kit is subject to royalties. The number of LNS servers, LNS remote clients and LNS device credits shipped must be reported quarterly to Echelon/USA. Customer must sign SW licence form "LNS-A"
 Release 3.1 LonMaker Professional Edition	37000-31 37000-31-DEU	LonMaker for Windows version 3.1 SR3 German version Includes 64 device credits	1775,25 1775,25	LNS based software for installation and maintenance of LonWorks networks. For systems running Windows 98/2000/XP. Requires separate LNS compatible network interface like PCLTA-21, PCC-10, SLTA-10 or any iLON device shrink wrap SW licence
 Upgrade LonMaker Professional Edition	37012-31 37012-31-DEU	Upgrade to LonMaker for Windows 3.1 German version	1478,25 1478,25	Upgrade license from earlier versions of the LonMaker for Windows to the release 3.1 LonMaker for Windows shrink wrap SW licence
 Release 3.1 LonMaker Standard Edition	37020-31 37020-31-DEU	LonMaker for Windows version 3.1 SR3 German version Includes 5 device credits	1181,25 1181,25	LNS based software for installation and maintenance of LonWorks networks For systems running Windows 98/2000/XP Requires separate LNS compatible network interface like PCLTA-21, PCC-10, SLTA-10 or any iLON device shrink wrap SW licence
 Upgrade LonMaker Standard Edition	37032-31 37032-31-DEU	Upgrade to LonMaker for Windows 3.1 German version	884,25 884,25	Upgrade license from earlier versions of the LonMaker for Windows to the release 3.1 LonMaker for Windows shrink wrap SW licence

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<p>DDE Server</p>  <p>for Windows</p>	37200-20	LNS DDE server OEM edition	1181,25	<p>Software to link Windows applications to LonWorks networks using standard Microsoft DDE protocol.</p> <p>Requires separate LNS compatible network interface like PCLTA-21, PCC-10, SLTA-10 or any iLON device</p> <p>shrink wrap SW licence</p>
<p>Upgrade</p>  <p>LNS Application Developer's Kit</p>	34319	Upgrade to LNS Turbo edition application developers kit	1.47825,00	<p>Upgrade license from earlier versions of the LNS application development kit for Windows to the LNS Turbo edition application development kit</p> <p>Customer must sign SW licence form "LNS-AU"</p>
<p>Upgrade</p>  <p>LNS Redistribution Kit</p>	34322	Upgrade to LNS Turbo edition redistribution kit	1478,25	<p>Upgrade license from earlier versions of the LNS redistribution kit for Windows to the Turbo edition of LNS</p>

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Product	Ref.	Description	Price (US\$)		Comments
Transceivers					
	50051	FTT-10A	<2100 pcs 21,60	>2100 pcs call EBV sales	Free topology transceiver for FT-10 networks Speed: 78 kb/s Distance: 500 m (free topology) 2700 m (bus topology)
 requires FT-X1 transformer	14210-500 14211-500	FT3120-E4S40 SOIC-32 package with preprogrammed comm. parameters	<1500 pcs 25,65	>1500 pcs call EBV sales	FT3120 smart transceiver for FT-10 networks For twisted pair transformer isolated free topology. 40 MHz, 4 KB EEPROM, 2 KB RAM, 12 KB ROM 78 kb/s transmission speed.
 requires FT-X1 transformer	14220-800 14221-800	FT3120-E4P40 TQFP-44 package with preprogrammed comm. parameters	<1600 pcs 26,46	>1600 pcs call EBV sales	FT3120 smart transceiver for FT-10 networks For twisted pair transformer isolated free topology. 40 MHz, 4 KB EEPROM, 2 KB RAM, 12 KB ROM 78 kb/s transmission speed.
 requires FT-X1 transformer	14230-450	FT3150-P20 TQFP-64 package	<1800 pcs 22,95	>1800 pcs call EBV sales	FT3150 smart transceiver for FT-10 networks For twisted pair transformer isolated free topology. 20 MHz, 0,5 KB EEPROM, 2 KB RAM, no ROM 78 kb/s transmission speed.
	15310-1000	PL3120-E4T10 TSSOP-38 package	<1000 pcs 18,90	>1000 pcs call EBV sales	PL3120 power line network smart transceiver Nonisolated or transformer isolated coupling 115 kHz and 132 kHz CENELEC compliant Free or bus topology wiring for powered and unpowered media 10 MHz, 4 KB EEPROM, 2 KB RAM, 24 KB ROM 5 kb/s transmission speed Requires purchase of 17010 PL3120 DSK
	15320-960	PL3150-L10 LQFP-64 package	<960 pcs 18,90	>960 pcs call EBV sales	PL3150 power line network smart transceiver Nonisolated or transformer isolated coupling 115 kHz and 132 kHz CENELEC compliant Free or bus topology wiring for powered and unpowered media 10 MHz, 0,5 KB EEPROM, 2 KB RAM, no ROM 5 kb/s transmission speed Requires purchase of 17020 PL3150 DSK
	14240	FT-X1 transformer	<1500 pcs 2,43	>1500 pcs call EBV sales	Isolation transformer for FT31xx 78 kb/s transmission speed.
	51001	FTT-10A magnetic shield	4,455		Magnetic shield assembly <i>only for FTT-10A transceiver, not for FT-X1 transformer.</i>
	50040-02	LPT-11	<1700 pcs 25,65	>1700 pcs call EBV sales	Link power transceiver Power and data on same twisted pair cable. Speed: 78 kb/s Distance: 500 m (free topology) 2700 m (bus topology)
	50020-10	TP/XF-1250	<1500 pcs 28,35	>1500 pcs call EBV sales	High speed isolated transceiver For twisted pair cable. Speed: 1,25 Mb/s Distance: 130 m (bus topology)

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Product	Ref.	Description	Price (US\$)	Comments
	TR-PLT-20	Mains coupling transformer for PL3120/3150	6,41 €	High performance mains network coupling transformer for PL31x0 smart transceivers for CENELEC EN60065-1 A-, B- and C-band operation Through-hole mounting Transmission ratio: 1:1 Bifilar wound Isolation voltage pri/sec: >4 kV (EN60950) 17.8 mm length x 12.8 mm width x 17.5 mm height

IP Networking Solutions				
	72010-2 (Eur.)	iLON™ 10 TP/FT-10	295,65	LonWorks/Ethernet adapter Low cost Ethernet to LON interface 10Base-T (10 Mbit) port <i>(Does not contain a router!)</i> Local/remote configuration via built-in web page Requires LNS3 based applications such as LonMaker for Windows 3, LNS DDE server or custom application based on the LNS Application Developers Kit.
	72010-3 (UK)		295,65	
	72011-2 (Eur.)	iLON™ 10 PL-20	295,65	
	72011-3 (UK)		295,65	
	72101-2	iLON™ 100 e2 TP/FT-10, no modem	884,25	LonWorks/Internet server Low cost Ethernet to LON interface 10/100Base-T (10/100 Mbit) port <i>(Does not contain a router!)</i> 2 digital inputs, 2 relay outputs 2 meter bus (M-bus) inputs Dial in/out 56 kbps V90 modem (option) Real time clock Scheduler, data logging capabilities Alarm management functions Local/remote configuration via built-in web page SOAP/XML web services Built-in web server DIN rail mount Built-in 100...240 V _{AC} power supply
	72102-2	iLON™ 100 e2 TP/FT-10, modem	1077,30	
	72103-2	iLON™ 100 e2 PL-20, no modem	884,25	
	72104-2	iLON™ 100 e2 PL-20, modem	1077,30	
	72601	iLON™ 600 TP/FT-10, mains power	884,25	LonWorks/Internet server and router Fully transparent LON to Ethernet OSI layer 3 router 10/100-BaseT port with autopolarity and autoselect EIA-852 and ANSI/EIA 709.1 compliant Serial port for configuration DIN rail mount Built-in 90...240 V _{AC} power supply (72601 and 72602) 24 V _{DC} powered (72603 and 72604)
	72602	iLON™ 600 TP/XF-1250, mains power	884,25	
	72603	iLON™ 600 TP/FT-10, 24 V power	884,25	
	72604	iLON™ 600 TP/XF-1250, 24 V power	884,25	


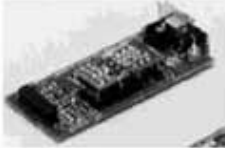


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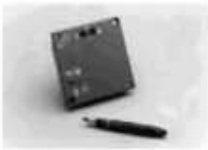



Product	Ref.	Description	Price (US\$)		Comments
Control Modules					
	55010-00	TP/XF-78 control module	<500 pcs 86,40	>500 pcs call EBV sales	Control module with TP/XF-78 + ROM socket
	55010-10	TP/XF-78 flash control module	99,90		Control module with TP/XF-78 + Flash socket
	55020-01	FT-10 control module	<500 pcs 86,40	>500 pcs call EBV sales	Control module with FTT-10A + ROM socket
	55020-10	FT-10 flash control module	99,90		Control module with FTT-10A + Flash socket
	65100-200	LTM-10A control module	147,15		Control module without transceiver: 3150 Neuron chip 10 MHz 32 KB RAM 64 KB Flash MIP firmware External SMX transceiver required
	65150-242 (Eur.)	LTM-10A / FT-10 platform twisted pair	735,75		LTM-10A based evaluation node with: FTM-10 SMX transceiver board (77040) LTM-10 motherboard Enclosure and power supply
	65150-243 (UK)		735,75		
	65150-270	LTM-10A / PL-20 platform powerline	884,25		LTM-10A based evaluation node with: PLM-22 SMX transceiver board (77162) LTM-10 motherboard Enclosure Requires a 5 V, 1 A +/-5% power supply
	78020	Power supply	24,16		Power supply for model 65150-2xx: 78020: 230 V _{AC} Eur. 78030: 230 V _{AC} UK
	78030		24,16		
	78200-2xx	Line coupling unit	112,05		Model 65150-270 line coupling unit: Model 78200-211: PL-20 Line/Earth 120 V _{AC} Model 78200-220: PL-20 Line/Earth 230 V _{AC} Model 78200-221: PL-20 Line/Neutral 230 V _{AC}
	65120	LTM-10 motherboard	221,40		LTM-10A motherboard To mount one SMX transceiver board and one LTM-10A control module. Also includes Reset, Service and IO button and LEDs.

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Product	Ref.	Description	Price (US\$)	Comments
LonTalk Interfaces - download Windows device driver SW from www.echelon.com				
	73381 73382 73383 73384	PSG-3 / FT-10 PSG-3 / TP-78 PSG-3 / TP-1250 PSG-3 / RS-485	549,45 549,45 549,45 549,45	User programmable serial LonTalk adapter (not NSI/LNS compliant). PSG firmware library included with the NodeBuilder development tool or available for free download from http://www.echelon.com/ . RS-232 input: 1200 baud up to 115.2 kbaud Requires 9...30 V AC or DC power supply
	73351 73352 73353 73354 73370 73371	SLTA-10 / FT-10 SLTA-10 / TP-78 SLTA-10 / TP-1250 SLTA-10 / RS-485 PROM / RS-485 / 78k PROM / RS-485 / 635k	549,45 549,45 549,45 549,45 37,8 37,8	Serial LonTalk adapter Twisted pair cabling (NSI/LNS compliant). Requires 9...30V AC or DC power supply SLTA-10 / RS-485 bitrate: 39 kb/s Firmware PROM to support RS-485 @ 78 kb/s Firmware PROM to support RS-485 @ 635 kb/s Download device driver for Windows 95/98, NT, 2000, XP from http://www.echelon.com/
	78020 78030	Power supply for 733xx series	24,16 24,16	Model 78020: 230 V _{AC} , output 9 V _{DC} , 150 mA (Eur.) Model 78030: 230 V _{AC} , output 9 V _{DC} , 150 mA (UK)
	65202	LTS-20	245,70	Serial LonTalk core module (NSI/LNS compliant). Requires external transceiver
	73390	PSG-20	245,70	User programmable serial LonTalk core module (not NSI/LNS compliant). PSG firmware library included with the NodeBuilder development tool or available for free download from http://www.echelon.com/ . Requires external transceiver.
	74501 74502 74503 74504 74405	PCLTA-21 / FT-10 PCLTA-21 / TP-78 PCLTA-21 / TP-1250 PCLTA-21 / RS-485 PCLTA-20 / SMX	386,10 386,10 386,10 386,10 386,10	PCI host LonTalk adapter board On board transceiver (except for PCLTA-20/SMX) Download device driver for Windows 95/98, NT, 2000, XP from http://www.echelon.com/
	73200 78302 78301 73250 73251	PCC-10 2-wire cable 14-wire cable POD TP-78 POD TP-1250	371,25 37,80 64,80 165,00 165,00	PCMCIA type II card (PCcard) Built in FTT-10A transceiver. (connect custom transceivers via external POD) Download device driver for Windows 95/98, NT, 2000, XP from http://www.echelon.com/
<i>new</i>  <i>available May 2005</i>	75010	U10 TP/FT-10 network interface	222,75	USB network interface for TP/FT-10 channels, with or without link power Includes 30 cm USB extension cable and auto-configuring driver software. USB 1.1 and 2.0 compliant.
<i>new</i>  <i>available May 2005</i>	75020-2	U20 PL-20 network interface	222,75	USB network interface for PL-20 channels Includes 30 cm USB extension cable and auto-configuring driver software. Plug-in line coupler/power supply (Eur. plug) USB 1.1 and 2.0 compliant.

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SMX Transceiver Modules and Special Transceiver Adapters				
	74405	PCLTA-20 / SMX	386,10	<p>PCI host LonTalk adapter board This interface board receives one of the following SMX transceiver cards: 770x0 or 77162</p> <p>Download device driver for Windows 95/98/2K/XP/NT from http://www.echelon.com/</p>
	77010 77030 77040 77050	SMX TP/XF-78 SMX TP-1250 SMX FT-10 SMX-RS-485	141,75 141,75 89,10 77,00	<p>Transceiver board for use with PCLTA-20/SMX Twisted pair cabling</p>
	77162	SMX PL-20	260,55	<p>Transceiver board for use with PCLTA-20/SMX Powerline cabling</p>
	78200-221	PL-20 L-N 230 V coupling unit for use with SMX PL-20 model 77162	112,05	<p>Line coupling unit To connect SMX transceivers to mains electrical network. Includes cable to connect to SMX PL-20 adapter. Coupling mode: Line to Neutral</p>

LonPoint Router Modules				
	42100 42101 42102 42103 42104 42105	FT / FT FT / TP-78 FT / TP-1250 TP-78 / TP-78 TP-78 / TP-1250 TP-1250 / TP-1250	519,75 594,00 557,55 594,00 594,00 594,00	<p>LonPoint router Integrated router with 2 transceivers. External power supply 16...30 V AC or DC required</p>
	48222	DIN rail plate for router	29,70	<p>DIN rail plate For fitting one LonPoint Router module</p>
	61000-100	RTR-10	222,75	<p>Router core module Requires addition of two external transceivers</p>
	15-82-1175	Socket for RTR-10	Call EBV sales	<p>RTR-10 Socket Through-hole 40-pin vertical mount SIM</p>









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Test & Programming Equipment				
	TLON-11151	Neuron 3120 programmer	1620,00 €	Neuron programmer unit Stand-alone programmer Programs all 3120 Neurons and FT3120s Serial RS-232 connection to PC Windows programmer software included SOP-32 ZIF socket included Direct download to FT-10 network possible Datasheet at: www.ebv.com/en/products/lonworks_area.html
	TLON-11151A	QFP-44 ZIF socket	742,50 €	
	58022-2 (Eur.) 58022-3 (UK)	PLCA-22 power line communication analyzer	7418,25/pair	PLT-22 based powerline communication analyzer for field testing powerline network operation. Signal strength meter. Backlit LCD display. RS-232 output-only port for data logging. Coupling switch. Phase detector. 100 ...240 V _{AC} power supply. Meets CENELEC EN50065-1 A- and C-band requirements.
<i>new</i> 	33110-301	LonScanner professional edition	735,75	LonWorks protocol analyzer software Software to collect and analyze all packets on a LonWorks channel. Documentation and drivers included. Compatible with Windows 2000, Windows Server 2003 and Windows XP. Requires a PCC-10, PCLTA-20, PCLTA-21, U10 or U20 network interface, or an iLON 100 or iLON 600 server.
<i>new</i> 	33110-302	LonScanner LNS Turbo edition	587,25	LonWorks protocol analyzer software Software to collect and analyze all packets on a LonWorks channel. Documentation and drivers included. Compatible with Windows 2000, Windows Server 2003 and Windows XP. Requires a PCC-10, PCLTA-20, PCLTA-21, U10 or U20 network interface, or an iLON 100 or iLON 600 server. Also requires an LNS Turbo runtime or a product that incorporates an LNS Turbo runtime.
	28004	GIZMO-4 I/O board	735,75	I/O evaluation board For testing/evaluating NodeBuilder application examples or for LonWorks training. Includes a 4-line x 20-char. LCD, 2 ADC 10-bit, 2 DAC 8-bit, 2 digital inputs, 2 digital outputs, digital shaft encoder, buzzer, RTC and temperature sensor
	43202	DM-21	727,65	Embedded control module Installs and maintains up to 127 nodes and one router in an FT-10 based network. For use with an LNS database. Requires NodeBuilder development system for setup and configuration. External power supply 16...30 V AC or DC required
	48111	Din rail plate for DM-21	29,70	

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Documentation – find datasheets on www.ebv.com/en/products/lonworks_area.html				
Documentation 	CDROM- ECH3	December 2001 edition	Free	Product manuals in PDF Web browser based collection of complete set of data sheets, user manuals, engineering bulletins and application notes.
	LONWORKS- DOC	Introduction to LonWorks by EBV Elektronik	8,10 €	Basic features of LonWorks Condensed survey on the LonWorks Technology Includes Echelon Product Documentation CD-ROM

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Training – see scheduled dates on www.ebv.com/en/products/lonworks_area.html				
	100	Introduction to the LonWorks Platform	472,50 €	1-day introductory class designed to introduce basic features of LONWORKS
	150	Specifying Open Systems	1073,25 €	2-day class, system specifiers, architects, contractors, and consulting engineers will learn how to specify LONWORKS technology and select the components for building control applications.
	201	LonWorks Network Design	2025,00 €	3-day course covers the network design process. Class work includes selecting components and architecture, installing and configuring the network, optimizing network resources, and maintaining and documenting the network.
	301	Using the LonMaker Integration Tool	1613,25 €	2-day course provides instruction in effectively using the LonMaker Integration tool. The course offers instruction on customizing the LonMaker environment, managing large projects, managing network variables and connections.
	302	LonWorks Network Troubleshooting	1613,25 €	2-day course offers diagnostic and debugging techniques for network designs. Course uses the Protocol Analyzer to find and view critical information, analyze network statistics, examine details of a LONWORKS communication data and packet report.
	303	Internet Connectivity	1613,25 €	2-day course offers hands-on experience designing, implementing, and troubleshooting LONWORKS networks that integrate the Internet. Course work includes installation and configuration of the iLON1000 Internet Server which is used as a router and a web server.
	401	LonWorks Device Development	2423,25 €	4-day course is for developers who are designing LONWORKS devices. The course provides hands-on experience in designing, debugging, and testing new LONWORKS devices using the NeuronC programming language and features the NodeBuilder 3 development tool. Course includes practice in designing LONWORKS network devices that meet LONMARK guidelines for interoperability.
	601	LNS Network Tools Development	3375,00 €	4-day course designed to provide the skills to develop network tools for installation, maintenance, diagnostics, monitoring, and control. Participants will complete actual network using LNS tools.

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Neuron Chip Overview

Neuron® Chip Model	FW code ROM	on-chip EEPROM	on-chip RAM	Package type	Firmware version for:		
					≤10 MHz	20 MHz	40 MHz
Toshiba							
TMPN3120FE3M	16 KB	2 KB	2 KB	SOP-32	Ver. 9	Ver. 9	N/A
TMPN3120FE5M	16 KB	3 KB	4 KB	SOP-32	Ver. 10	Ver. 10	N/A
TMPN3150B1AFG	N/A	0,5 KB	2 KB	QFP-64	Ver. 7/13	N/A	N/A
Echelon							
FT3120-E4S40	12 KB	4 KB	2 KB	SOP-32	Ver. 13	Ver. 13	Ver. 13
FT3120-E4P40	12 KB	4 KB	2 KB	QFP-44	Ver. 13	Ver. 13	Ver. 13
FT3150-P20	N/A	0,5 KB	2 KB	QFP-64	Ver. 13	Ver. 13	N/A
PL3120-E4T10	24 KB	4 KB	2 KB	TSSOP-38	Ver. 14	N/A	N/A
PL3150-L10	N/A	0,5 KB	2 KB	LQFP-64	Ver. 14	N/A	N/A

FLASH devices for use with FT3150-P20, PL3150-L10 or TMPN3150xx

Manufacturer	Part #	Organization	Density	Operating temperature	Comments
Atmel	AT29C256	32K x 8	256 Kbits	-40...+85 °C	Non-standard Flash pinout
Atmel	AT29C257	32K x 8	256 Kbits	-40...+85 °C	
Atmel	AT29C512	64K x 8	512 Kbits	-40...+85 °C	

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OEM agreement download http://www.echelon.com/Company/sales/agreements.htm				This agreement must be signed by each company developing software and/or hardware that uses the Neuron chip LonTalk® Protocol firmware.
 Release 3.1	10020-31-242 (Eur.)	NodeBuilder 3.1 TP/XF-1250; FT-10; LPT-10; FT3120/50	8903,25	Single node development tool: LTM-10A based evaluation node with 64 KB flash GIZMO-4 Neuron chip IO evaluation board SMX TRX board FTM-10 (only version -242) SMX TRX board PLM-22 (only version -272) LonMaker 3.1 Professional network management SW Neuron C version 2 compiler/linker/debugger LNS plug-in development SW LNS DDE server OEM edition 230 V _{AC} power supply (Eur. or UK) One year LonSupport Requires separate LNS compatible network interface like PCLTA-21, PCC-10, SLTA-10 or any iLON device shrink wrap SW licence
	10020-31-243 (UK)		8903,25	
	10020-31-272 (Eur.)	NodeBuilder 3.1 Powerline line-neutral 230 V coupling	8903,25	
	10020-31-273 (UK)		8903,25	
	17010	PL3120 DSK Power line smart transceiver development support kit	2895,75	Power line network development tool: 10 PL3120 or PL3150 samples Layout design files Layout plots Schematic design file P-CAD viewer and initialisation file BOM for external circuitry OEM preproduction design review NodeBuilder 3.1 required Shrink wrap SW licence
	17020	PL3150 DSK Power line smart transceiver development support kit	2895,75	
Upgrade  Release 3.1	10030-31	Upgrade to Node Builder 3.1	884,25	NodeBuilder upgrade from earlier versions to 3.1 SW same as shipped with product 10020-31, except LonMaker 3.1 and LonSupport is <u>not</u> included Requires separate LNS compatible network interface like PCLTA-21, PCC-10, SLTA-10 or any iLON device shrink wrap SW licence
<i>new</i>  <i>available May 2005</i>	10000-31-242 (Eur.)	FT mini evaluation kit Twisted pair / free topology mini EVK	513,00	Low cost kits for evaluating LonWorks technology One 3120 and one 3150 evaluation board Two MiniGizmo I/O boards with 8 switches, 8 LEDs, temperature sensor and piezo transducer. US10 USB network adapter (FT version) US20 USB network adapter (PL version) Tamura line coupler/power supply Neuron C compiler (limited version) Example code
	10000-31-243 (UK)		513,00	
	10000-31-272 (Eur.)	PL mini evaluation kit Powerline mini EVK	513,00	
	10000-31.273 (UK)		513,00	
 ShortStack Application Development kit	23400	ShortStack Development kit	download www.echelon.com/toolbox under "OEM Components"	ShortStack Application Development Kit For developing software that uses a Neuron chip together with a host processor to form a LON-enabled device. requirements - 3 rd party development tool for host processor. - 4 Kbytes of program memory and 200 bytes of RAM for ShortStack API and serial driver in host - 4 Kbytes of program memory and 2 Kbytes of RAM for ShortStack micro server in Neuron shrink wrap SW licence