Micriµm
Empowering embedded systems

Micriµm provides high quality, royalty-free software for the embedded market. We maintain the highest level of programming standards resulting in software with clean room design and a small footprint. We offer an entire suite of middleware software to suit all our customers' needs. Our products are easily portable to work with your 8, 16, 32, and 64 bit microprocessors, microcontrollers, and DSPs.

2006 Price List

License Models Definitions

Micriµm Components		
Real-Time Operating System (RTOS)	µC/OS-II — The Real-Time Kernel	Certifiable for Safety Critical Systems Scalable ROMable Preemptive Multitasking
TCP-IP Protocol Stack	µC/TCP-IP — Protocol Stack	Cleanest source code in the industry Scalable/works with any RTOS ANSI C Source Code
Modbus Stack	µC/Modbus — Embedded Modbus Stack	Multiple channels ASCII and RTU Master/Slave RS-232 and/or RS-485
Universal Serial Bus	µC/USB — Universal Serial Bus — BULK — MSD	Bulk Device Stack Mass Storage Class Device USB 1.1/2.0 PC Driver included
File System	µC/FS — Embedded File System	MS-DOS (FAT)/Windows Compatible "FAT Free" version available Works with any RTOS Multiple media support
Graphical User Interface	µC/GUI — Embedded Graphical User Interface	CPU & LCD Independent B&W, Grayscale, & Color Large selection of LCD Drivers
Flash Loader	µC/FL — Flash Loader	Interfaces via RS-232 port CRC-check implemented Configurable – Optional Password
CanBus	µC/CAN — CAN Protocol Stack	µC/ CAN can be used with or without RTOS Enables easy and quick implementation of custom CAN protocols such as CANopen.
Building Blocks	µC/BuildingBlocks — Embedded Software Components	**µC/Clk** **µC/LCD**

Licensing Models Definitions

Single Product License

A Single Product License allows you to embed a Micriµm component into one end-product which can be manufactured in any quantity, for the life of the end-product. In other words, this is a royalty-free license but a different license is required for each different end product (i.e. model) that embeds the Micriµm component even if the end product is in the same family as a previously licensed end product by a different model number or processor type.

General Rule: If you consider it a separate product…so do we!
This license is specific to the processor used AND the specific name and model of the end product.

Examples of a Single Product include any <u>single</u> model of a TV, HDTV, VCR, DVD Player, Network Switch, Network Router, etc. If different only by color then it's considered the same end-product.

A Single Product License includes free updates, phone and e-mail support for 90 days.

Product Line License

A Product Line License allows you to embed a Micriµm component into any number of end-products within a 'Product Family'. You can manufacture an unlimited number of units of each of those products, for the life of the end-products within the product family. In other words, this is a royalty-free license but applicable to all end-products that do similar functions within the same product family.

Examples of End-Product lines are: HDTV's, VCRs, DVD Players, MP3 Players, Washing Machines, GSM Cell Phones, PDA's, Network Switches, Network Routers, etc.

A Product Line License includes free updates, phone and e-mail support for One Year for two users.

Per-CPU Type License

A Per-CPU Type License allows you to embed a Micriµm component into any number of End-Products using a single, specific, processor type (e.g. 68HC12, 80x86, ARM7, ARM9, ColdFire, MicroBlaze, Nios II, PowerPC, etc.). You can manufacture an unlimited number of units of each of those products, for the life of the end-products that use of the specified Processor Type from a specific manufacturer, e.g.; Atmel, Freescale, Xilinx etc.

Examples of Per-CPU Type End-Products can be a combination of all of the following; so long as they ALL use the same processor from the same manufacturer: HDTV's, VCRs, DVD Players, MP3 Players, etc.

A Per-CPU Type License includes free updates, phone and e-mail support for one year for two users.

Site License

A Site License allows you to embed a Micriµm component into any end-products which uses any CPU as long as the products are designed from a single site. You can manufacture an unlimited number of units of these products from any location worldwide.

A site is defined as a physical location: a building or series of related buildings within a 2 miles radius. Multiple Site Licenses are required if a company has multiple design facilities. A Site License is not transferable.

A Site License Includes free updates, phone and e-mail support for one year for three users.

Micriµm	µC/OS-II Price List 2006		
www.micrium.com	(Prices are subject to changes without notice)		
Products	**Description**	**Single Product**	**Per Seat**
µC/OS-II, The real-Time Kernel	µC/OS-II, The Real-Time Kernel is a portable, ROMable, scalable, preemptive real-time, multitasking kernel for microprocessors and microcontrollers. µC/OS-II is Certifiable for use in Safety Critical Systems (Certifiable to DO178-B Level A, µC/OS-II has been revised to follow most of the 127 MISRA C rules,	$ 2,750.00	
µC/OS-View	µC/OS-View is a combination of a Microsoft Windows application program and code that resides in your target system (i.e. your product). The Windows application connects with your system via an RS-232C serial port. The Windows application allows you to 'View' the status of your tasks which are managed by µC/OS-II.		$495.00
µC/OS-II Kernel Awareness plug-in	µC/OS-II Kernel Awareness Plug-In allows you to display µC/OS-II's internal data structures in a convenient series of Windows integrated with many debuggers. This provides you with information about each of the active tasks in the target application, about each semaphore, mutex, mailbox, queue and event flag group along with a list of all the tasks waiting on these kernel objects, and more.		$550.00
Maintenance and Support	**Description**	**Single Product**	**Per Seat**
µC/OS-II, The real-Time Kernel	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 550.00	
µC/OS-View	One year extended support and update period (can only be purchased from customers with a valid License agreement)		$ 100.00
µC/OS-II Kernel Awareness plug-in	One year extended support and update period (can only be purchased from customers with a valid License agreement)		$ 100.00

Several other Licensing Models are available!
Please contact a Micriµm Sales Representative for pricing.

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µC/TCP-IP Price List 2006

(Prices are subject to changes without notice)

Products	Description	Single Product
µC/UDP-IP	UDP/IP Protocol Stack includes: IPv4, ARP, ICMP, UDP and BSD 4.4 Socket Interface - **Needs an RTOS such as µC/OS-II**	$ 4,995.00
µC/TCP-IP	TCP/IP Protocol Stack includes: IPv4, ARP, ICMP, UDP, TCP and BSD 4.4 Socket Interface - **Needs an RTOS such as µC/OS-II**	$ 6,250.00
µC/DHCPc	Dynamic Host Configuration Protocol (Client)	$ 990.00
µC/DNSc	Domain Name Services (Client)	$ 990.00
µC/HTTPs	Hyper Text Transfer Protocol (Server) -**You need µC/FS or simulate its API with your own file system**	$ 1,990.00
µC/FTPc (Available Q1-2006)	File Transfer Protocol (Client) **- You need µC/FS or simulate its API with your own file system**	$ 1,290.00
µC/FTPs	File Transfer Protocol (Server) **- You need µC/FS or simulate its API with your own file system**	$ 1,290.00
µC/SNTPc	Simple Network Time Protocol (Client) -**We recommend you also purchase µC/CLK**	$ 495.00
µC/Telnet (Available Q4-2006)	Terminal Emulation (Client and Server)	$ 1,290.00
µC/TFTPs	Trivial File Transfer Protocol (Server) -**You need µC/FS or simulate its API with your own file system**	$ 490.00
µC/PPPc (Available Q2-2006)	Point-to-Point Protocol (Client)	$ 3,490.00
µC/SMTPc (Available Q1-2006)	Simple Mail Transport Protocol (Client)	$ 990.00
µC/POP3c (Available Q1-2006)	Post Office Protocol 3 (Client)	$ 990.00

Drivers	Description	Single Product
LAN91C111 (SMSC)		$ 1,250.00
AT91RM9200 (Atmel)	Integrated MAC	$ 1,250.00
MCF5272 (Freescale)	Integrated NIC	$ 1,250.00
CS8900A (Cirrus Logic)		$ 1,250.00
EMAC (Xilinx)	Xilinx Soft Core MAC	$ 1,250.00
AT91SAM7x256 (Atmel)	Integrated NIC	$ 1,250.00
FR (Fujitsu)	Integrated NIC	$ 1,250.00
Other		$ 1,250.00

Maintenance and Support	Description	Single Product
µC/UDP-IP	1 Year free updates, phone and e-mail support.	$ 999.00
µC/TCP-IP	1 Year free updates, phone and e-mail support.	$ 1,250.00
µC/DHCPc	1 Year free updates, phone and e-mail support.	$ 198.00
µC/DNSc	1 Year free updates, phone and e-mail support.	$ 198.00
µC/HTTPs	1 Year free updates, phone and e-mail support.	$ 398.00
µC/TFTPs	1 Year free updates, phone and e-mail support.	$ 98.00
µC/FTPc (Available Q4-2006)	1 Year free updates, phone and e-mail support.	$ 258.00
µC/FTPs	1 Year free updates, phone and e-mail support.	$ 258.00
µC/SNTPc	1 Year free updates, phone and e-mail support.	$ 99.00
uC/SMTPc	1 Year free updates, phone and e-mail support.	$ 198.00
uC/POP3c	1 Year free updates, phone and e-mail support.	$ 198.00
µC/Telnet (Available Q4-2006)	1 Year free updates, phone and e-mail support.	$ 258.00
µC/PPPc (Available Q4-2006)	1 Year free updates, phone and e-mail support.	$ 698.00
Drivers-EACH	1 Year free updates, phone and e-mail support.	$ 250.00

Several other Licensing Models are available!
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µC/Modbus Price List 2006

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Products	Description	Single Product
µC/Modbus-S	µC/Modbus, Modbus Slave (Server) communication module.	$ 2,350.00
µC/Modbus-M (Available Q2-2006)	µC/Modbus, Modbus Master (Client) communication module.	$ 2,350.00

Maintenance and Support	Description	Single Product
µC/Modbus-S	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 470.00
µC/Modbus-M (Available Q2-2006)	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 470.00

Several other Licensing Models are available!
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Micrium	µC/USB Price List 2006	
www.micrium.com	(Prices are subject to changes without notice)	
Products	**Description**	**Single Product**
µC/USB-Bulk, USB Bulk-Device Stack	µC/USB Bulk Device stack (Target source code) - Includes Windows 2000 and XP driver executables	$ 3,365.00
µC/USB-MSC, USB Mass-Storage-Class Stack	µC/USB Mass-Storage Class stack (Target source code)	$ 2,500.00
µC/USB, Windows Driver (Source)	µC/USB Windows 2000, XP driver source code	$ 625.00
µC/USB, Controller Driver (Source)	µC/USB Driver for Host Controller (SEE BELOW)	$ 625.00
Drivers	**Description**	**Single Product**
SL811HS	CYPRESS	$ 625.00
LPC2148	PHILIPS	$ 625.00
LPC3000	PHILIPS	$ 625.00
STR710	ST	$ 625.00
LH79524	SHARP	$ 625.00
LH7A400	SHARP	$ 625.00
LH7A404	SHARP	$ 625.00
M16C	RENESAS	$ 625.00
AT91SAM7S	ATMEL	$ 625.00
Maintenance and Support	**Description**	**Single Product**
µC/USB-Bulk, USB Bulk-Device Stack	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 673.00
µC/USB-MSC, USB Mass-Storage-Class Stack	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 500.00
µC/USB, Windows Driver (Source)	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 125.00
µC/USB, Controller Driver (Source)	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 125.00

Several other Licensing Models are available!
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Micriµm	**µC/FS Price List 2006**	
www.micrium.com	(Prices are subject to changes without notice)	
Products	**Description**	**Single Product**
µC/FS, Basic Package - Microsoft FAT	Microsoft compatible FAT File System library, ANSI "C"-source code for 8/16/32 bit CPUs RAM disk driver. Includes one optional device driver of your choice	$ 3,750.00
µC/FS, Basic Package - Micrium	Micrium File System library, ANSI "C"-source code for 8/16/32 bit CPUs RAM disk driver. Includes one optional device driver of your choice	$ 4,750.00
SD/MMC Driver	Generic driver for Secure Digital or Multi Media Card (C source code)	$ 625.00
NOR Flash Driver	Generic driver for Flash memory chips (C source code)	$ 625.00
SMC / NAND Driver	Generic driver for SmartMedia cards and NAND Flash (C source code)	$ 625.00
CF/True IDE Driver	Compact Flash and IDE device driver (C source code)	$ 625.00
Serial DataFlash	Generic driver for Serial DataFlash (C source code)	$ 625.00
Maintenance and Support	**Description**	**Single Product**
µC/FS, Basic Package - Microsoft FAT	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 750.00
µC/FS, Basic Package - Micrium	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 950.00
SD/MMC Driver	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 125.00
NOR Flash Driver	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 125.00
SMC / NAND Driver	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 125.00
CF/True IDE Driver	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 125.00
Serial DataFlash	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 125.00

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µC/GUI Price List 2006

(Prices are subject to changes without notice)

Product Group	Description	Single Product
uC/GUI Basic B/W	Complete graphic library, ANSI "C"-source code for 8/16/32 bit CPUs Basic fonts charset ISO 8859-1 (*1) Simulation library(*3) Touch Screen Support uC/GUI-View (*4) Bitmap Converter (*4) Supports b/w displays	$ 3,100.00
uC/GUI Basic Gray Scale	Complete graphic library, ANSI "C"-source code for 8/16/32 bit CPUs Basic fonts charset ISO 8859-1 (*1) Simulation library(*3) Touch Screen Support uC/GUI-View (*4) Bitmap Converter (*4) Supports b/w and grayscale displays	$ 4,350.00
uC/GUI Basic Color	Complete graphic library, ANSI "C"-source code for 8/16/32 bit CPUs Basic fonts charset ISO 8859-1 (*1) Touch Screen Support Simulation library(*3) uC/GUI-View (*4) Bitmap Converter (*4) Supports b/w, grayscale and color displays	$ 6,225.00

Optional modules	Description	Single Product
Window Manager Widgets/Dialogs	Windows manager for uC/GUI and Widgets/Dialogs such as: Progressbar, Button, Frame window, Edit box (*2)	$ 3,100.00
Multi Layer	Support for multiple display	$ 1,850.00
Memory devices	Memory devices for flicker-free animation (*2)	$ 1,225.00
Antialiasing	Antialiasing smoothes curves and diagonal lines (*2)	$ 2,500.00
VNC	VNC Server	$ 1,850.00
Win32 Simulation	uC/GUI simulation Source code license	$ 2,295.00

Development Tools	Description	Price
Bitmap Converter (extra seat)	Converts Bitmap files (BMP) into uc/GUI compatible ANSI "C"-files (*5)	$ 875.00
Viewer (extra seat)	uC/GUIView (*5)	$ 875.00
Font Converter	Converts any Windows font (True type, Type1 or Raster) into uC/GUI ANSI "C"-format (*4)	$ 2,750.00

Maintenance		Description	Single Product
µC/GUI b/w Extended Update		One year extended support and update period (can only be purchased from customers with a valid license)	$ 620.00
µC/GUI Gray Scale Extended Update		One year extended support and update period (can only be purchased from customers with a valid license)	$ 860.00
µC/GUI Color Extended Update		One year extended support and update period (can only be purchased from customers with a valid license)	$ 1,240.00
Any LCD Driver		One year extended support and update period (can only be purchased from customers with a valid license)	$ 275.00
Optional Modules	Widgets/Dialogs	One year extended support and update period (can only be purchased from customers with a valid license)	$ 620.00
	Multi Layer	One year extended support and update period (can only be purchased from customers with a valid license)	$ 370.00
	Memory devices	One year extended support and update period (can only be purchased from customers with a valid license)	$ 245.00
	Antialiasing	One year extended support and update period (can only be purchased from customers with a valid license)	$ 500.00
	VNC	One year extended support and update period (can only be purchased from customers with a valid license)	$ 370.00

Drivers	Item	Description	Single Product
D r i v e r C S o u r c e	LCDPage1bpp	Hitachi HD61202,Philips PCF8810, PCF8811,Philips PCF8535 LCD controllers.(*2)	$ 1,375.00
	LCDLin	Sharp 79531.	$ 1,375.00
	LCDMEM	No controller, writes into main memory Requires ISR or special hardware to refresh LCD (monochrome displays)	$ 1,375.00
	LCDSLIN	Driver for Toshiba 6963 and SEIKO Epson 1330, 1335 (*2)	$ 1,375.00
	LCDMEMC	No controller, writes into main memory Requires ISR or special hardware to refresh LCD (color displays)	$ 1,375.00
	LCD07X1	Solomon SSD1854 LCD controllers(*2)	$ 1,375.00
	LCD159A	Driver for Seiko Epson SED159A LCD controllers(*2)	$ 1,375.00
	LCD15E05	Driver for Seiko Epson S1D15E05 and S1D15E06 LCD controllers(*2)	$ 1,375.00
	LCD6642X	Driver for Hitachi HD66420 and HD66421 LCD controllers(*2)	$ 1,375.00
	LCD180S1	Driver for Samsung LTS180S1	$ 1,375.00
	LCD161620	Driver for NEC PD161620 display controller	$ 1,375.00
	LCDFujitsu	Fujitsu MB87J2120 (Lavender)	$ 1,375.00
	LCD6331	Driver for Samsung S6B33B1X display controller	$ 1,375.00
	LCD1611	Driver for Ultrachip UC1611 display controller	$ 1,375.00
	LCDColorOnMono	Example: Cirrus Logic EP7312	$ 1,375.00
	LCD501	Driver for Leadis LDS501	$ 1,375.00
	LCDNoritake	Noritake display GU256X128C-3900	$ 1,375.00
	LCDPage1bpp	Samsung KS0713, S6B0713 Samsung KS0724, S6B0724 UltraChip UC1606 Samsung KS0108B, S6B0108B Hitachi HD61202 Philips PCF8810, PCF8811 Philips PCF8535 New Japan Radio Company NJU6679 Philips PCD8544 Epson S1D15710 Epson SED1520 Epson SED1560 Epson SED1565 Novatek NT7502 Samsung S6B1713 Solomon SSD1815 Sitronix ST7565 Epson SED1566 Epson SED1567 Epson SED1568 Epson SED1569 Epson SED1575	$ 1,375.00
	LCDPage4bpp	Sitronix ST7528	$ 1,375.00
	LCDSLin	Epson SED1330 Epson SED1335 Epson S1D13700 (indirect interface) Toshiba T6963	$ 1,375.00
	LCDVesa	Any VESA compatible hardware	$ 1,375.00
	LCDXylon	FPGA based display controller from Xylon	$ 1,375.00
	LCD0323	Solomon SSD0323 OLED controller	$ 1,375.00
	LCD07X1	Salomon SSD1854 Samsung KS0711, S6B0711 Samsung KS0741, B6B0741	$ 1,375.00
	LCD1200	Toppoly C0C0 Toppoly C0E0	$ 1,375.00
	LCD13701	Epson S1D13701 OLED controller	$ 1,375.00
	LCD159A	Epson SED159A	$ 1,375.00
	LCD15E05	Epson S1D15E05	$ 1,375.00
	LCD1611	UltraChip UC1611	$ 1,375.00
	LCD161620	NEC µPD161620	$ 1,375.00
	LCD1781	Solomon SSD1781	$ 1,375.00
	LCD501	Leadis LDS501	$ 1,375.00
	LCD6331	Samsung S6B33B0X, Samsung S6B33B1X, Samsung S6B33B2X	$ 1,375.00
	LCD6642X	Hitachi HD66420 Hitachi HD66421	$ 1,375.00
	LCD667XX	Hitachi HD66766 Hitachi HD66772	$ 1,375.00
	LCD66750	Hitachi HD66750	$ 1,375.00
	Custom	Will develop a driver for your hardware. Sample required.	$ 1,375.00

Several other Licensing Models are available!
Please contact a Micriµm Sales Representative for pricing.

Micriµm	**µC/FL Price List 2006**	
www.micrium.com	(Prices are subject to changes without notice)	
Products	**Description**	**Site**
µC/FL, Windows (Object)	Object code Windows application and Bootloader source code.	$ 2,475.00
µC/UPDATER	Source code Windows application.	$ 1,250.00
Maintenance	**Description**	**Site**
µC/FL, Windows (Object)	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 495.00
µC/UPDATER	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 250.00

Several other Licensing Models are available!
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Micriµm	µC/CAN Price List 2006
	(Prices are subject to changes without notice)

Products	Description	Single Product
µC/CAN, The CAN framework	µC/CAN, The CAN framework API abstracts CAN messages and signals. The environment enables buffered RX and TX CAN communication. Multibus management. Includes one optional driver of your choice	$ 1,680.00

Modules	Description	Single Product
µC/CANopen Small Sensor Slave (available Q3/2006)	Small Sensor Slave Heartbeat-Producer, PDO-Producer, SDO-Server, EMCY-Producer, NMT-Slave, SYNC-Consumer	$ 1,500.00
µC/CANopen Sensor Slave (available Q4/2006)	Standard Slave Small Sensor Slave plus PDO-Consumer, SDO-Client, EMCY-Consumer, TIME-Consumer, Dynamic PDO	$ 1,920.00
µC/CANopen Master (planned)	Standard Master Standard Slave plus TIME-Producer, SCO-Producer, Heartbeat-Consumer, SYNC-Producer, NMT-Master	$ 3,360.00

Driver	Description	Single Product
SJA1000 (under development)	PHILIPS	$ 290.00
Fujitsu LX16	FUJITSU (integrated CAN Controller)	$ 290.00
LPC2294 (under development)	PHILIPS (integrated CAN Controller)	$ 290.00
AtmegaCAN (under development)	ATMEL (integrated CAN Controller)	$ 290.00
MPC555x (under development)	FREESCALE (integrated CAN Controller)	$ 290.00
MPC5xx (under development)	FREESCALE (integrated CAN Controller)	$ 290.00
TMS320F2812 (under development)	Texas Instruments (integrated CAN Controller)	$ 290.00
Other		$ 290.00

Maintenance and Support	Description	Single Product
µC/CAN, The CAN framework	1 Year free updates, phone and e-mail support.	$ 336.00
µC/CANopen Small Sensor Slave (available Q3/2006)	1 Year free updates, phone and e-mail support.	$ 300.00
µC/CANopen Sensor Slave (available Q4/2006)	1 Year free updates, phone and e-mail support.	$ 384.00
µC/CANopen Master (planned)	1 Year free updates, phone and e-mail support.	$ 672.00
Drivers-EACH	1 Year free updates, phone and e-mail support.	$ 58.00

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Micriµm	**µC/Building Blocks** Price List 2006	
www.micrium.com	(Prices are subject to changes without notice)	
Products	**Description**	**Single Product**
µC/CLK	µC/Clk is a module that implements a Year 2000 compliant clock/calendar. Your application can obtain 'timestamps' in three formats: µC/Clk, UNIX, NTP. µC/Clk can work with µC/SNTPc and thus obtain the current time from a Network Time Server.	$ 495.00
µC/LCD	µC/LCD allows your application to easily interface to LCD character modules based on the HC44780 controller and supports modules from 1x16 to 2x40 characters. µC/LCD allows you to display text, bar-graphs and custom characters.	$ 495.00
Maintenance and Support	**Description**	**Single Product**
µC/CLK	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 99.00
µC/LCD	One year extended support and update period (can only be purchased from customers with a valid License agreement)	$ 99.00

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