

CUWIN

TOUCH CONTROLLER

CUWIN4300S



- 800 x 480 resolutions, 260K colors
- Visual Basic, EVC supports
- ETHERNET, RS232, RS485 supports
- Speaker with Audio output
- Keyboard or Mouse supports
- FAN-LESS, SD card supports

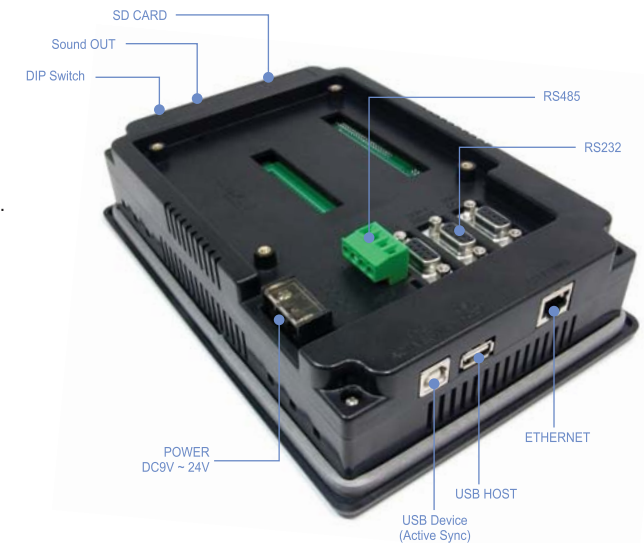
CUWIN3500

Windows CE based Touch Controller

The CUWIN combines a graphic display and touch interface with a high efficiency industrial controller.

It is equipped with Microsoft Windows CE 5.0 Embedded, a stable operating system used in many industrial touchscreen applications. Windows CE supports applications developed in Microsoft Visual Studio 2005 and other development tools able to create Windows CE executables.

Developing for the CUWIN is similar to normal PC program development, anyone with previous PC programming experience can develop CUWIN applications without difficulty. The CUWIN supports the .NET Compact Framework(1.0, 2.0) which reduces development and testing time by allowing the use of cross-platform .NET functions.



W01002

CUWIN3200

- 7inch WIDE
- 800 x 480 resolutions, 260K colors
- Black BEZEL Type Case
- Touch Panel
- SD Card/Ethernet Supports
- Bezel Open Size : 153.4 x 92.44mm
- Size(WHD) : 216 x 120 x 30mm

For the first purchase, please buy CUWIN3200 START KIT, in which SD card(1G) and cables are included.



W01003

CUWIN3500

- 7inch WIDE
- 800 x 480 resolutions, 260K colors
- Having Cover Case (Front Waterproof)
- Touch Panel
- SD Card/Ethernet Supports
- Bezel Open Size : 153.4 x 92.44mm
- Size(WHD) : 222 x 152 x 51.2mm

For the first purchase, please buy CUWIN3500 START KIT, in which SD card(1G) and cables are included.



W01004

CUWIN4300K

- 10.2inch WIDE
- 800 x 480 resolutions
- Black BEZEL Type Case
- Touch Panel
- SD Card/Ethernet Supports
- Bezel Open Size : 224 x 135mm
- Size(WHD) : 284 x 163 x 53.3mm

For the first purchase, please buy CUWIN4300K START KIT, in which SD card(1G) and cables are included.

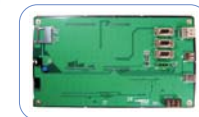


W01005

CUWIN4300S

- 10.2inch WIDE
- 800 x 480 Resolutions
- Silver BEZEL Type Case
- Touch Panel
- SD Card/Ethernet Supports
- Bezel Open Size : 224 x 135mm
- Size(WHD) : 284 x 163 x 53.3mm

For the first purchase, please buy CUWIN4300S START KIT, in which SD card(1G) and cables are included.



CUTOUCH

TOUCH CONTROLLER

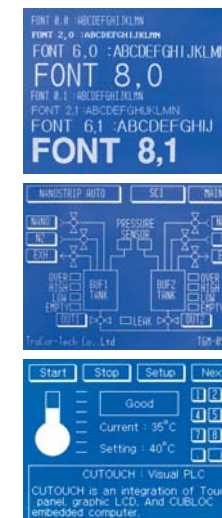
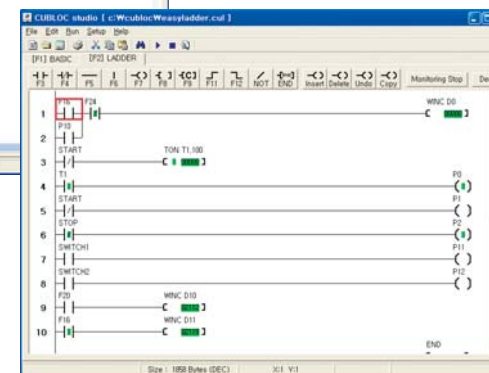
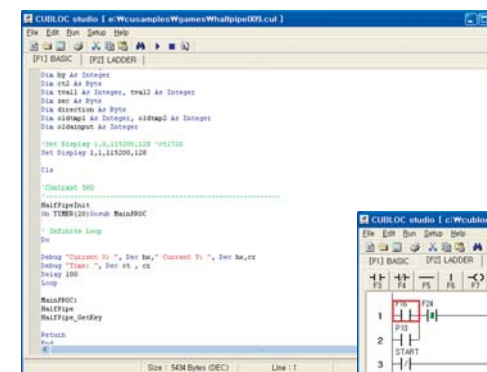
Touch Panel + Graphic LCD + CUBLOC + I/O = CUTOUCH

CUBLOC Graphic LCD and Touch Panel are fused into one product. With BASIC, you can create custom graphics and process touch input. With Ladder, real-time I/O and sequential processing can easily be implemented into your final product.



320 x 240 MONO GRAPHIC - "VISUAL TOUCH CONTROLLER"

CUBLOC module, Graphic LCD, and Touch Panel are fused into one product. With BASIC, you can create custom graphics and process touch input. With Ladder logic, real-time I/O and sequence processing can easily be implemented into your final products. With 82 I/Os, 80KB program memory and 2 RS232 hardware independent ports, there is plenty of room for your development.



INCLUDED: CT1721 + RCABLE SET

CT1721 U05003

- 5.7" 320 x 240 Blue Graphic LCD
- Internal Touch Panel and Touch Controller
- 80K Flash Program Memory
- 82 I/O Ports
- Internal Battery for Data Backup
- Internal Real Time Clock (RTC)
- MODBUS (SLAVE, ASCII) supported
- RS232 2 Channel
- High Counter 2 Channel
- Size(WH) : 7.17" x 5.17"



CT1721 Start Kit U06003

- CT1721
- RS232C 9pin 1:1 Cable
- RCABLE SET
- User's Manual
- CD



Max's Industrial Touch-Screen Application Kit - RELAY 103001

- INCLUDED : CT1721, RCABLE SET, RS232C Cable, Relay8 Board x 4ea, User's Manual



Max's Industrial Touch-Screen Application Kit - SSR 103002

- INCLUDED : CT1721, RCABLE SET, RS232C Cable, SSR8 Board x 4ea, User's Manual

CUBLOC

BASIC with LADDER LOGIC CONTROLLER

Finally a New Controller for the Industrial World that is easy to use has arrived.

Experience Real-Time processing powers of PLC and BASIC all in one chip.
Now you can process complex math, graphic capabilities, and communication using BASIC language.

High capacity Programming.

The CUBLOC modules and CuTOUCH Touch Panels both have 80~200KB of programming memory... enough for simple to even very complex applications requiring floating point math and MODBUS to interface with other peripherals.

High capacity Power.

Plug-N-Play Relay8 Boards from Comfile Technology are capable of handling up to 5A of 250V AC OR 5A of 30V DC power. Simply Plug-N-You-Are-Ready-To-Go.

Save Time and Money.

Spend more time designing, less time debugging.
Start developing using our modules, then go into mass-production with our Chip Set versions.



[Module Comparison Chart]

Model	Program Memory	I/O PORT	DATA Memory	RS232	PWM	ETC
CB220	80K byte	16 + 6	3K	2	3	.
CB280	80K byte	49	3K	2	6	.
CB290	80K byte	91	28K	2	6	RTC
CB320	200K byte	16 + 6	7K	2	3	.
CB380	200K byte	49	7K	2	6	.
CB405	200K byte	64	110K	4	12	.

CUBLOC CORE MODULE

U01002 CB220



- 16 + 6 I/O Ports
- 80KB Flash Memory for Programming
- 2KB BASIC SRAM • 1KB LADDER SRAM
- 4KB EEPROM Memory
- Execution Speed 36000 Instr./sec
- 8 Channel 10 bit ADC
- 3 Channel 10~16 bit PWM (DAC)
- 2 Channel 16 bit High Speed Counters
- H/W RS232 2ch, SPI, I²C
- Size(WHD) : 1.2" x 0.6" x 0.4" (15.3 x 30 x 11mm)

U01001 CB280



- 49 I/O Ports
- 80KB Flash Memory for Programming
- 2KB BASIC SRAM • 1KB LADDER SRAM
- 4KB EEPROM Memory
- Execution Speed 36000 Instr./sec
- 8 channel 10 bit ADC
- 6 channel 16 bit PWM (DAC)
- 2 Channel 16 bit High Speed Counters
- H/W RS232 2ch, SPI, I²C
- Size(WHD) : 1.4" x 1" x 0.4" (25.4 x 35 x 11mm)

U01003 CB290



- 91 I/O Ports
- 80KB Flash Memory for Programming
- 24KB BASIC SRAM • 4KB LADDER SRAM
- 4KB EEPROM Memory
- Execution Speed 36000 Instr./sec
- 8 Channel 10 bit ADC • H/W RS232 2ch, SPI, I²C
- 6 Channel 10~16 bit PWM (DAC)
- 2 Channel 16 bit High Speed Counters
- Internal RTC, data memory backup supported
- Size(WHD) : 2.4" x 1.9" x 0.5" (59.4 x 47.8 x 13mm)

U01007 CB320



- 16 + 6 I/O Ports
- 200KB Flash Memory for Programming
- 6KB BASIC SRAM • 1KB LADDER SRAM
- 4KB EEPROM Memory
- Execution Speed 36000 Instr./sec
- 8 Channel 10 bit ADC
- 6 Channel 16 bit PWM (DAC)
- 6 Channel 16 bit High Speed Counters
- H/W RS232 2ch, SPI, I²C
- Size(WHD) : 1.2" x 0.6" x 0.4" (15.3 x 30 x 11mm)

U01008 CB380



- 49 I/O Ports
- 200KB Flash Memory for Programming
- 6KB BASIC SRAM • 1KB LADDER SRAM
- 4KB EEPROM Memory
- Execution Speed 36000 Instr./sec
- 8 channel 10 bit ADC
- 6 channel 16 bit PWM (DAC)
- 2 Channel 16 bit High Speed Counters
- H/W RS232 2ch, SPI, I²C
- Size(WHD) : 1.4" x 1" x 0.4" (25.4 x 35 x 11mm)

U01005 CB405

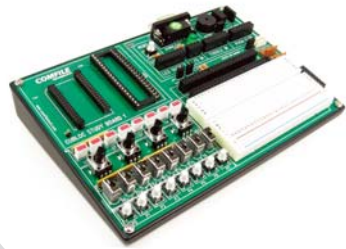


- 64 I/O Ports
- 200KB Flash Memory for Programming
- 51KB BASIC SRAM • 4KB LADDER SRAM
- 55KB HEAP Memory • 4KB EEPROM Memory
- Execution Speed 36000 Instr./sec
- 16 Channel 10 bit ADC • H/W RS232 4ch, SPI, I²C
- 12 Channel 16 bit PWM (DAC)
- 2 Channel 32 bit High Speed Counters
- Size(WHD) : 2.4" x 1.9" x 0.5" (59.4 x 47.8 x 13mm)

BASIC with LADDER LOGIC CONTROLLER

CUBLOC

CUBLOC TEST BOARD



- U02001**
CUBLOC STUDY BOARD
- CUBLOC Test Board (for study & experimentation)
 - Jumper Wires Included
 - LEDs, ADCs, switches, pushbuttons, piezo, breadboard, and other peripherals are included so that users can learn to use CUBLOC easily and quickly
 - Power : 9V 500mA
 - Size (W,H,D) : 6.8" x 4.8" x 1.2" 172 x 122 x 30mm



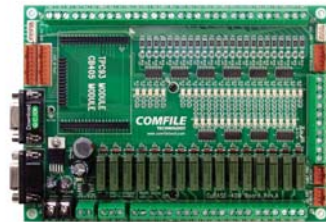
- U02010**
CUBLOC HEADER BOARD
- Interface Board for CB220/280/320/380 to test with a Bread Board
 - You can use this board to attach to a Bread Board to test and experiment easily by using jumper wires

CUBLOC BASE BOARD



RCABLE for 32M

- U02008**
CUBASE-32M
- Input/Output circuit for CUBLOC CB280 module
 - 24V Input (Photocoupler) : 16
 - NPN Transistor Output : 12
 - AD Input : 6
 - High Counter Input Circuit : 2
 - PWM output : 6
 - DC/DC Converter
 - Din Rail Attachable
 - Size (W,H,D) : 4.64" x 3.7" x 0.94" 118 x 94 x 24mm



- U02014**
CUBASE-40M
- Input/Output circuit for CUBLOC CB405 & TPC93 module
 - 24V Input (Photocoupler) : 24
 - NPN Transistor Output : 16
 - AD Input (10bit) : 4
 - High Counter Input Circuit : 2
 - PWM output : 3
 - Din Rail Attachable
 - Size (W,H,D) : 7.08" x 5.03" x 0.78" 179.8 x 127.8 x 20mm



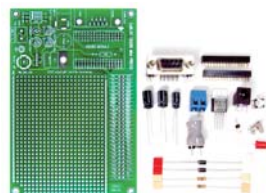
RCABLE for 64M

- U02009**
CUBASE-64M
- Input/Output circuit for CUBLOC CB290 module
 - 24V Input (Photocoupler) : 32
 - NPN Transistor Output : 32
 - AD Input : 8
 - High Counter Input Circuit : 2
 - PWM output : 6
 - High Counter : 2
 - DC / DC Converter
 - Din Rail Attachable
 - Size (W,H,D) : 5.3" x 4.6" x 0.7" 136 x 117 x 19mm

CUBLOC PROTO BOARD



- U02003**
CB220/320 PROTO
- Proto-board for CB220/320
 - This Proto-board can be used for those users who need simple I/O port connections
 - Parts included (Soldering required)
 - Size (W,H) : 2.9" x 1.9" 73 x 48mm



- U02007**
CB280/380 mini PROTO
- Mini Proto-board for CB280/380
 - This Proto-board can be used for those users who need simple I/O port connections
 - Parts included (Soldering required)
 - Size (W,H) : 3.3" x 4.8" 84 x 124mm



- U02002**
CB280/380 PROTO
- This PROTO Board is for use with CUBLOC CB280/380 module
 - Use this PROTO Board to easily connect I/O ports without making a new PCB board
 - DIN RAIL Attachable
 - Size (W,H,D) : 6.1" x 3.5" x 1.1" 155 x 88 x 28mm



- U02004**
CB290 PROTO
- This PROTO Board is for use with CUBLOC CB290 module
 - Use this PROTO Board to easily connect I/O ports without making a new PCB board
 - XPORT Attachable (Internet Download & Monitor)
 - DIN RAIL Attachable
 - Size (W,H,D) : 7.87" x 4.3" x 1.1" 200 x 110 x 28mm

I/O-CELL BOARD

I/O CELL helps users to customize the input and output ports of CUBLOC more efficiently. Input I/O Cell modules include DC24V and ADIN. Output I/O Cell modules include Relays, TR outputs, and LEDs. By using I/O Cells, the user will be able to customize input and output ports of CUBLOC as needed.

Size : 0.47" x 2.2" (12 x 55 mm)



T04001
DC24V INPUT



T04005
RELAY OUTPUT



T04008
NPN TR OUTPUT



T04006
TACT S/W INPUT



T04003
LED OUTPUT



T04004
VOLUME INPUT



T04007
TOGGLE INPUT



T04009
SSR OUTPUT

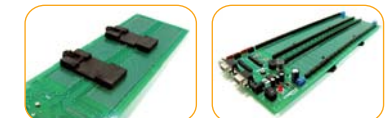
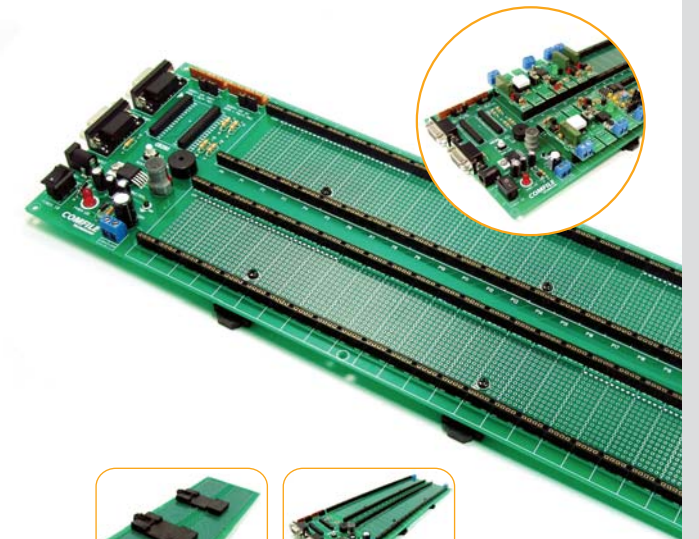


T04010
A/D INPUT

Size : 0.94" x 2.2" (24 x 55 mm)



- CB220/320 I/O-CELL BASE BOARD U02011**
- CUBLOC CB220/320 I/O Cell Baseboard
 - 16 I/O Cells
 - Internal RS232C circuit
 - Size (W,H,D) : 6.82" x 5.11" (173.2 x 129.8mm)



- CB280/380 I/O-CELL BASE BOARD U02012**
- CUBLOC CB280/380 I/O Cell Baseboard
 - 48 I/O Cells
 - Internal RS232C circuit
 - Size (W,H,D) : 14.82" x 5.11" (376.4 x 129.8mm)

BASIC with LADDER LOGIC CONTROLLER

CUBLOC

CUSB series



U09001
CUSB-22R

- CB280 + Base + Relay + Power board
- Power : AC85~264V
- DC24V Input : 11 point
- Relay Output : 10 point
- Size (W,H,D) : 3.4" x 4.0" x 1.6"
(85 x 103 x 41mm)



U09002
CUSB-22D

- CB280 + Base + Relay + Power board
- Power : DC24V input (21V~28V)
- DC24V Input : 11 point
- Relay Output : 10 point
- Size (W,H,D) : 3.4" x 4.0" x 1.3"
(85 x 103 x 34mm)



U09004
CUSB-30R

- CB280 + Base + Relay + Power board
- Power : AC85~264V
- DC24V Input : 11 point
- Relay Output : 6 point
- Size (W,H,D) : 3.4" x 4.2" x 1.7"
(86 x 106 x 44 mm)



U09003
CUSB-36R

- CB280 + Base + Relay + Power board
- Power : AC85~264V
- DC24V Input : 16 point
- Relay Output : 16 point
- Size (W,H,D) : 4.1" x 4.7" x 1.9"
(105 x 120 x 48 mm)

XPORT



U04009
MAXPORT

- XPORT + XPORT Dongle + CASE = MAXPORT
- Connect an XPORT to your CUBLOC, CUTOUCH or CUBASE to enable internet downloading and monitoring capabilities. We provide custom XPORT firmware and Java-enabled software to download and monitor all your devices from one location
- Size (W,H,D) : 1.33 x 0.64 x 0.53 in
33.9 x 16.25 x 13.5mm



U04001
XPORT

- Connect an XPORT to your CUBLOC, CUTOUCH or CUBASE to enable internet downloading and monitoring capabilities. We provide custom XPORT firmware and Java-enabled software to download and monitor all your devices from one location
- Size (W,H,D) : 1.33" x 0.64" x 0.53"
(16.25 x 33.9 x 13.5mm)



U04005
XPORT I/F Board

- Simply attach the XPORT Interface Board to a bread board, and you have TTL and RS232 12V level signals to work with



U04004
XPORT Dongle

- D-SUB 9 PIN connector
- MAX232 chip
- 3.3V regulator
- Size (W,H,D) : 2" x 1.2" x 0.5"
51 x 31 x 12mm

CF/SD CARD



E04009
SD-COM5

- Read/Write to CF Card(Compact Flash) or SD Card(SanDisk) memory cards!
- Add mass-storage device to your CUBLOC, CUTOUCH, or other industrial controllers (Up to 2 Gigabytes!)
- Use RS232 Serial communication to read/write to files
- FAT16 Standard
- Text/Binary Read and Write supported
- Card Status output pin
- Baud rates: 4800 to 115200bps
- Size : 2.5" x 1.5" x 0.5" (63 x 37.4 x 12.5mm)

E04002
CF-COM5

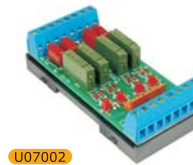
- 2 wire Rx and TX
- 5V RS232C

RELAY/SSR BOARD



U07005
SSR4 BOARD

- CUBLOC SSR without case
- Din rail attachable
- Input volt: 4~32VDC
- Load volt: AC50~240V
- Load Current : 0~2A
- Size (WHD) : 3.5" x 1.65" x 1.0" (89 x 42 x 30mm)



U07002
RELAY4 BOARD

- Use with CuBASE or CuTOUCH
- MATSUSHITA PA Relay
- DIN-RAIL Attachable
- ZNR for noise-filtering
- Size (WHD) : 3.5" x 1.65" x 1.0" (89 x 42 x 26mm)



U07004
CASE Relay4 Board

- Use with CuBASE or CuTOUCH
- MATSUSHITA PA Relay
- DIN-RAIL Attachable
- Maximum AC/DC for Relays:
AC250V 5A / DC30V 5A
- Size (WHD) : 1.52" x 3.0" x 1.22"
38.7 x 77 x 31mm



U07007
SSR8 BOARD

- CUBLOC SSR without case
- Din rail attachable
- Input volt: 4~32VDC
- Load volt: AC50~240V
- Load Current : 0~2A
- Size (WHD) : 3.5" x 3.3" x 1"
89 x 83 x 30mm



U07006
RELAY8 BOARD

- Use with CuBASE or CUTOUCH Add-On Board (Plug-N-Play w/ RCABLES)
- MATSUSHITA PA Relay
- DIN-RAIL Attachable
- ZNR for noise-filtering
- Size (WHD) : 3.5" x 3.3" x 1"
89 x 83 x 26mm

Accessories



E03004
RS232 to 422/485 Converter

- Communication: Asynchronous Serial
- Supported Baud Rates: 2400 to 115200 bps
- Maximum Distance: 1.2km



U04003
CB280/380 Socket

- 0.787" (2mm) pitch
- 2x16 (32 pin) 2 ea



U04006
CB290 Socket

- 0.0787" (2mm) pitch
- 2x20 (40 pin) 2 ea
- 2x14 (28 pin) 1 ea



U04002
USB-RS232C CABLE

- USB to Serial converter cable for users with no serial ports



E01010
RS232C CABLE

- RS232 1:1 Cable
- Female to Male



E01064
12VDC Adaptor

- PLUG IN ADAP 12VDC 500MA UNR 120VAC IN
- Use with CB Study Board



E01065
24VDC Adaptor

- Switching AC-DC ADAPTOR 120VAC IN, 24V 1.7A output.



E01067
125V AC Cable

- 10A AC Power Cable for use with CuSB series
- 18AWG



Q01015
DC JACK

BASIC with LADDER LOGIC CONTROLLER CUBLOC

START KIT

We recommend CUBLOC START KIT for first-timer, beginners, and developers.

CUBLOC Start Kit is for users who are new to CUBLOC. A study board or Proto board + CUBLOC module, user's manual, RS232 cable, and install CD are included.



U03005 CUBLOC START KIT – 220

INCLUDED CB220, STUDY BOARD-1, RS232C CABLE, User's Manual, Wires, CD



U03001 CUBLOC START KIT – 280

INCLUDED CB280, STUDY BOARD-1, RS232C CABLE, User's Manual, Wires, CD



U03004 CUBLOC START KIT – 290

INCLUDED CB290, CB290 PROTO Board, RS232C CABLE, User's Manual, Wires, CD

ZEDI KIT



ZEDI KIT 104001

INCLUDED
CB220, CB280, CB290, CB220-Proto Board, CB280-Proto Board, CB290-Proto Board, XPORT x 2ea, XPORT Dongle, GRFM-3KEY KIT, CuBASE-32M, CuBASE-64M, 32M for RCABLE, 64M for RCABLE, STUDY BOARD-1, CT1720, ADD-ON Board, RCABLE for ADD-ON Board, GHB-3224C, CLCD420-B, RELAY8 Board x 4ea, SSR8 Board x 4ea, CSG-4M x 2ea, 4x4 numeric KEYPAD, KEYPAD Controller, RS232C CABLE, 24VDC Adaptor, 12VDC Adaptor, User's Manual

Industrial Application KIT



I01001 Industrial Application Kit 32M

INCLUDED
CB280, CuBASE-32M, RCABLE for CuBASE-32M, RELAY8 Board x 2ea, CLCD420-B, RS232C Cable, User's Manual, CD



I01002 Industrial Application Kit 32M SSR

INCLUDED
CB280, CuBASE-32M, RCABLE for CuBASE-32M, SSR8 Board x 2ea, CLCD420-B, RS232C Cable, 24VDC Adaptor, User's Manual, CD



I01003 Industrial Application Kit 32M PRO

INCLUDED
CB280, CuBASE-32M, RCABLE for CuBASE-32M, RELAY8 Board x 2ea, GHB-3224C, 4x4 numeric Keypad, Keypad Controller, RS232C Cable, 24VDC Adaptor, User's Manual, CD



I01004 Industrial Application Kit 32M PRO SSR

INCLUDED
CB280, CuBASE-32M, RCABLE for CuBASE-32M, SSR8 Board x 2ea, GHB-3224C, 4x4 numeric Keypad, Keypad Controller, RS232C Cable, 24VDC Adaptor, User's Manual, CD



I02001 Industrial Application Kit 64M

INCLUDED
CB290, CuBASE-64M, RCABLE for CuBASE-64M, RELAY8 Board x 4ea, CLCD420-B, RS232C Cable, User's Manual, CD



I02002 Industrial Application Kit 64M SSR

INCLUDED
CB290, CuBASE-64M, RCABLE for CuBASE-64M, SSR8 Board x 4ea, CLCD420-B, RS232C Cable, 24VDC Adaptor, User's Manual, CD



I02003 Industrial Application Kit 64M PRO

INCLUDED
CB290, CuBASE-64M, RCABLE for CuBASE-64M, RELAY8 Board x 4ea, GHB-3224C, 4x4 numeric Keypad, Keypad Controller, RS232C Cable, 24VDC Adaptor, User's Manual, CD



I02004 Industrial Application Kit 64M PRO SSR

INCLUDED
CB290, CuBASE-64M, RCABLE for CuBASE-64M, SSR8 Board x 4ea, GHB-3224C, 4x4 numeric Keypad, Keypad Controller, RS232C Cable, 24VDC Adaptor, User's Manual, CD

IntelliLCD

DISPLAY

Intelligent Display Engine



7inch/10.2inch 800 x 480 TFT Color LCD ; 260K COLORS

Support true type Windows fonts

SD Card Support

Touch panel

RS232 Interface

USB PC sync, keyboard, mouse

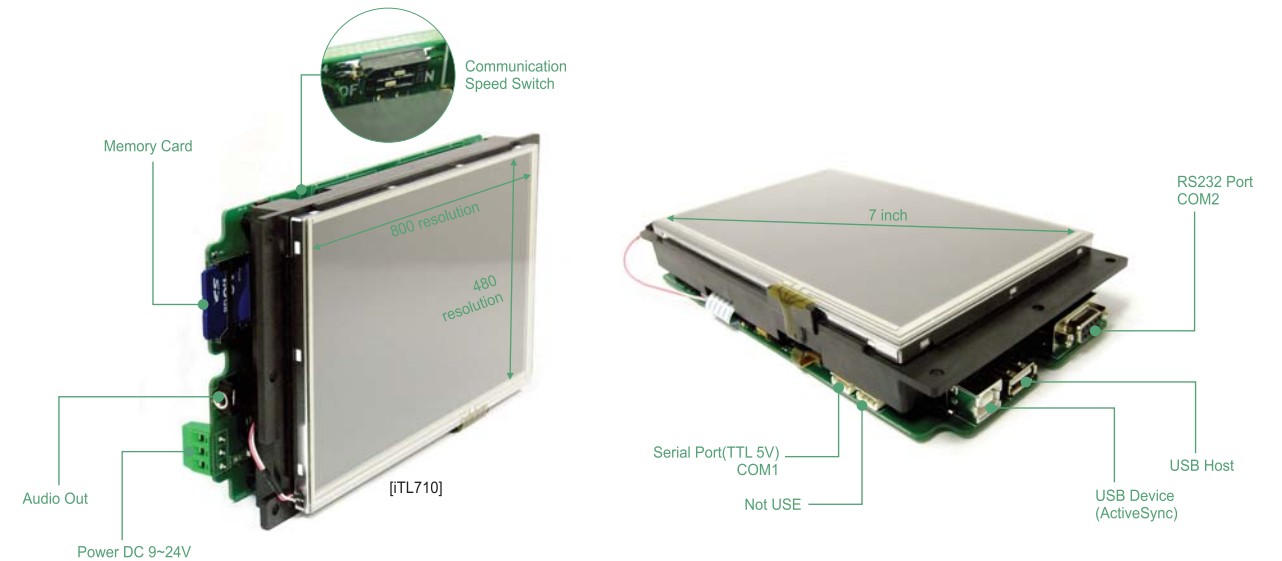
LED Backlight ON/OFF type



The new Comfile IntelliLCD serial-controlled display makes it easy to add a full color touch interface to any project! Connect to any controller with RS232 or 5V TTL serial I/O capability, such as our Cubloc modules. Then send simple commands to create interface screens with buttons, sliders, custom line graphics, and much more.

Full color bitmap images and screen description files can be read from an SD Flash memory card (up to 2GB). Display crisp, fully scalable text using the included fonts, or use any TrueType compatible font file.

Need a fast way to enter text? Simply plug a USB keyboard directly into the IntelliLCD's USB port. Don't want to use a touch screen to select buttons? Plug in a USB mouse or trackball. The iTL710 will process the USB input and relay the information to your controller over the serial connection.



D11002
iTL710

- 7" Wide TFT Color Touch Screen
- Support TrueType Windows Fonts
- RS232 Interface
- 800 x 480 resolutions, 260k Colors
- Size(WxDxH) : 196 x 108 x 30mm

For the first purchase, please buy iTL710 START KIT, in which SD card(1G) and cables are included.



D11003
iTL740

- 7" Wide TFT Color Touch Screen
- Support TrueType Windows Fonts
- RS232 Interface
- 800 x 480 resolutions, 260k Colors
- BEZEL Type Case
- Size(WxDxH) : 216 x 120 x 51.6mm

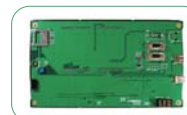
For the first purchase, please buy iTL740 START KIT, in which SD card(1G) and cables are included.



D11004
iTL840K

- 10.2" Wide TFT Color Touch Screen
- Support TrueType Windows Fonts
- RS232 Interface
- 800 x 480 resolutions, 260k Colors
- Black BEZEL Type Case
- Size(WxDxH) : 284 x 163 x 50mm

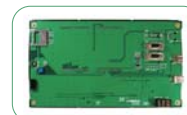
For the first purchase, please buy iTL840K START KIT, in which SD card(1G) and cables are included.



D11005
iTL840S

- 10.2" Wide TFT Color Touch Screen
- Support TrueType Windows Fonts
- RS232 Interface
- 800 x 480 resolutions, 260k Colors
- Silver BEZEL Type Case
- Size(WxDxH) : 284 x 163 x 50mm

For the first purchase, please buy iTL840S START KIT, in which SD card(1G) and cables are included.



GHLCD

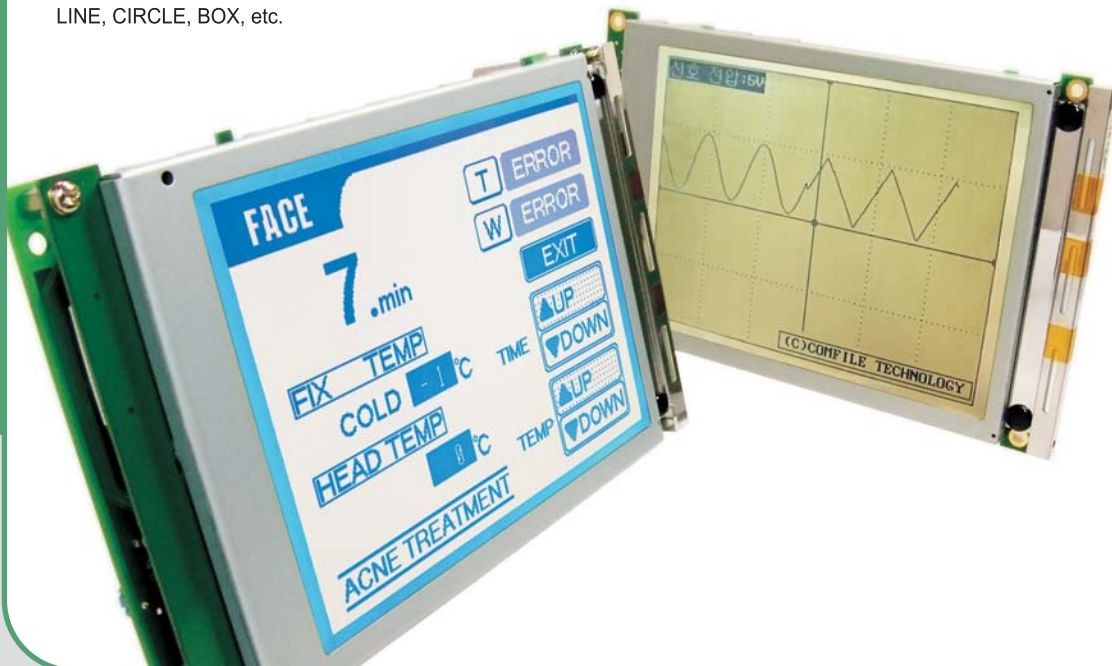
CLCD

DISPLAY

DISPLAY

GRAPHIC LCD DISPLAY

These Graphic LCDs can be used for displaying lines, circles, boxes, and text. I²C or RS232C protocol can be used to display desired graphics and text. With a backlight, the graphics are displayed brightly, even in dark spaces. CUBLOC supports native commands such as LINE, CIRCLE, BOX, etc.



- 2,400~115,200 baud rate selectable (default: 19,200 bps)
- Ports for 12V of RS232C and 5V of RS232C
- 5.7" 320x240 B/W Lcd panel
- Separated 3 layers for Graphics and Text
- Support text editing functions such as scroll, cursor, underline and inverting
- Two types of cursors: underline and box
- Text layer adopting character coordinate system
- Graphic layer adopting dot coordinate system
- COPY/CUT/PASTE - saving/restoring a partial region of GHLCD screen
- Expressing and saving BMP files
- Controlling Backlight by software
- Providing Control program to test from PC
- GraphicLCD + GHLCD drive module (including inverter) + Download cable
- Size (W,H,D) : 6.5" x 4.3" x 1.6" (165 x 110 x 40mm)
- Screen Size (W,H) : 4.7" x 3.6" (121 x 91mm)



GHB3224C D07006

- 320 x 240 Blue and White Graphic Liquid Crystal Display Module
- CCFL Backlight

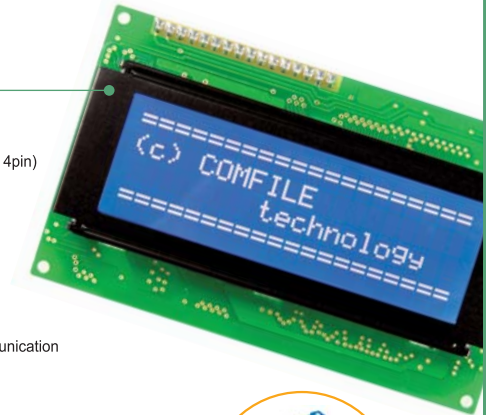
SERIAL LCD MODULE

LCD display modules with CuNET and RS232 (up to 115200bps). Various sizes and LED backlights are provided.

D08001

CLCD420-B

- Blue Screen 20 by 4 LCD
- CuNET or I2C (4pin) and RS232 Communication(3 or 4pin)
- LED Backlight
- Size (W,H) : 3.86" x 2.36" 98 x 60mm



D08003

CLCD216-G

- Green Screen 16 by 2 LCD
- CuNET or I2C (4pin) and RS232 Communication (3 or 4pin)
- LED Backlight
- Size (W,H) : 2.54" x 0.54" 64.5 x 13.8mm



D08002

CLCD420-G

- Green Screen 20 by 4 LCD
- CuNET or I2C (4pin) and RS232 Communication(3 or 4pin)
- LED Backlight
- Size (W,H) : 3.86" x 2.36" 98 x 60mm



[CLCD Back]



CSG-4S D09001

- CuNET (I2C) protocol supported
- 4 digit small type 7 segment display
- Upto 4 slave addresses can be selected
- Native command can be used with CUBLOC
- Size (W,H,D) : 2" x 1" x 0.7" (50 x 24 x 17mm)



CSG-4M D09002

- CuNET (I2C) protocol supported
- 4 digit medium type 7 segment display
- Upto 4 slave addresses can be selected
- Native command can be used with CUBLOC
- Size (W,H,D) : 4.53" x 2" x 1" (115 x 50 x 27mm)

WIRELESS



B04003

ACODE-300A

- Bluetooth RS232C Wireless module
- Real-time RS232C communication 1:7
- 99% send/receive within 30ft of open space
- Setup with PC and then connect with CUBLOC or CuTOUCH
- Communication between;
 - PC ↔ CUBLOC/CuTOUCH
 - CUBLOC/CuTOUCH ↔ CUBLOC/CuTOUCH
 - CUBLOC/CuTOUCH ↔ Other MCU that supports RS232
- Baud rate: 1200 ~ 230,400 bps
- Frequency: 2.4Ghz
- Operating Voltage: 3.3V
- Size: 0.75" x 0.75" x 0.44"



B05001

ACODE-300A Interface Board

- PC Interface Board for ACODE-300A
- Setup ACODE-300 with this PC Interface Board
- Status, RX, and TX LED are provided
- Connect to PC using serial cable
- Input voltage: 5-12V
- Size: 2.56" x 1.77" x 0.57"



R04003

GRFM-3KEY

- FM 3 Key Remote Controller Module
- Add remote control capability to your CUBLOC/CuTOUCH application!
- Sender Unit Power: 6V DC (Battery)
- Receiver Unit Power: 5V DC
- Receiver Unit Maximum Distance;
 - open space - 700 yards
 - closed space - 300 yards

CONNECTORS



B04003

RCABLE WIRE

- Length of each RCABLE WIRE : 3'3"
- 100 PCS



RCABLE Connector MALE

- 9PT / 7PT / 6PT / 4PT / 3PT / 2PT
- 10 PCS



RCABLE Connector FEMALE

- 9PS / 7PS / 6PS / 4PS / 3PS / 2PS
- 10 PCS

CONNECTORS



Q01099

D-SUB Connector Crimping Tools

- D-SUB Connector Crimping Tool for RCABLE

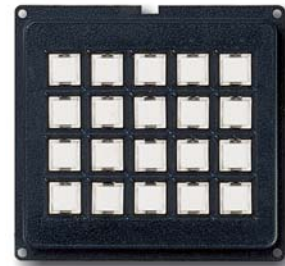


Q01013

Terminal Pin

- Terminal pins for RCABLE connectors ends (100 included)

KEYPAD



P02006

5x4 KEYPAD

- You can use this 5x4 Keypad to customize to your application!
- Size(WH): 3.23" x 2.71" (82 x 68.8mm)



P02007

4x4 KEYPAD

- You can use this 4x4 Keypad to customize to your application!
- Size(WH): 3" x 2.71" (76.3 x 68.8mm)



P02050

4x4 numeric KEYPAD

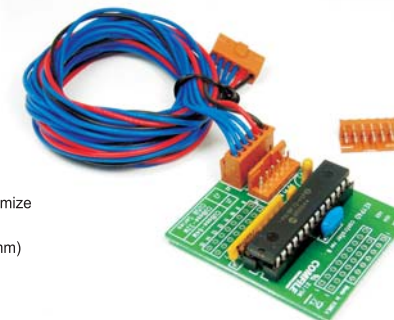
- 4x4 numeric KEY matrix
- Size(WH): 2.55" x 2.51" (65 x 64mm)



P02009

3x4 KEYPAD

- You can use this 3x4 Keypad to customize to your application!
- Size(WH): 1.72" x 2.63" (43.8 x 66.7mm)



P07008

KEYPAD Controller

- A true Plug-N-Play Keypad Controller that you can simply connect to any of our CuBASE, CuSB, or Add-On Board 6 pin keypad ports!

COMPONENT



COMPONENT

Products	Part Number	Pins	Description
P82B715	C7-P82B715	8P	I2C BUS EXTENDER
SN65176BP	C7-SN65176BP	8P	RS422/RS485 Differential Bus Transceiver
MCP3202	C7-MCP3202	8P	12-bit ADC 2 Channel, SPI interface
DS1620	C7-DS1620	8P	Digital Thermometer Chip
DS1302	C7-DS1302	8P	RTC - Real time Clock Chip
74HC595	C7-74HC595	16P	8 bit Shift register for outputs
PC-18T1	C7-PC18T1	4P	One channel Photocoupler
KPC714	C7-KPC714	4P	One channel Photocoupler AC-input

APPLICATION



ROB03

- Location : ROBO3
- Products : CT1721

Laminating Machine



- Location : DOOIL R.S
- Products : CB290, CUBASE-64M



AIR Heater Pump

- Location : POWER TECH.
- Products : CT1720, ADD-ON Board, Relay8 Board



Solar Collector

- Location : MI RAE
- Products : CB405, CLCD216-G



PCB Treatment Machine

- Location : FUSION TECH.
- Products : CT1721



Flame Sensor



- Location : NABUK ENG.
- Products : CB280, CVFD-216

Coextrusion



- Location : EVER PLUS
- Products : CUSB-36R

Cell Boring Machine



- Location : NANO & TECH
- Products : CT1720



Medicine Packaging Machines

- Location : SEJONG
- Products : TPC37, I/O-CELL Board, HLCD114



Packaging Machines

- Location : HAN-IL
- Products : CT1721



Actual Output System



- Location : DAI SHIN
- Products : CT1721, EZL80



Electrical precipitator

- Location : TAISUNG
- Products : CB290, CUBASE-64M, CLCD-216G, RELAY/SSR Board



Thermo-hygrostat



- Location : SUNG MIN
- Products : CT1720



Medical appliance



- Location : VATECH
- Products : PBM-R5, ELCD204-BL



Performance tester

- Location : KOREA IWASAKA
- Products : PBM-R5, RFM-3KEY, HLCD114



Grain-Color Distinguish Machine



- Location : A-MAX
- Products : PBM-R1, PBM-R5



Overloaded vehicles gravimetry

- Location : SAM-IN DATA SYSTEM
- Products : iTL720, CB405



Fuzzy Perm

- Location : A.I.FUZZY SYSTEM
- Products : CB280, GHB-3224C, XPORT

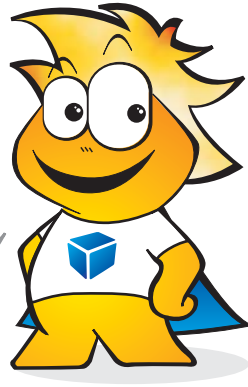


- Location : HANARO SYSTEM
- Products : GHB-3224A

Solution Feeder



FAQ



Hi there! My name is Max.
Please ask me anything and I have an answer
for you~

Q I use a microcontroller, what would I benefit by using CUBLOC? I can pretty much make anything already with a microcontroller.

MAX First, CUBLOC is way easier than a microcontroller. Second, you don't need to buy a separate compiler, emulator, and all that jazz. You just need a CUBLOC module, study board and a serial cable. Third, you will be able to spend more time designing, instead of spending grueling hours behind the computer. Think of CUBLOC as C language and a typical microcontroller as assembly language. With CUBLOC, you will be able to create something much bigger and faster. CUBLOC is a higher level embedded controller, meaning you do not have to invent the wheel all over again. You can simply add an LCD, Touch Screen, and create a professional device within hours, not months.

Q I am a total beginner. Will it help me to learn CUBLOC before learning microcontrollers?

MAX Most definitely! By learning to use CUBLOC, you will be able to quickly learn how to enable LEDs, switches, and graphic LCDs. If you use microcontrollers, the same things would take you at least 6 months. With our CUBLOC you can learn all this in less than a week!

Q I am trying to make an industrial machinery and I only know LADDER, what do I do Max?

MAX Don't worry you can simply just use LADDER only at the beginning. Since you have experience with PLCs, you will be able to quickly adapt to CUBLOC LADDER LOGIC. Once you get used to the LADDER, you can try a little bit of BASIC at a time until you are comfortable. After that, you will become a pro at both LADDER and BASIC. You see, you can do a lot more things in BASIC that you couldn't do in LADDER. Now you have a chance to build further on your PLC skills!

Q What kind of products can I make with CUBLOC?

MAX For example, you will be able to make production machinery, factory equipment, monitor and control systems, robots, internet-enabled monitoring and update systems, and many more! The limits are only your imagination. If you need to develop something quickly and be able to update it in the future, CUBLOC is the one for you!

Q What is in CUBLOC?

MAX CUBLOC's main chip is an Atmel 8 bit RISC microcontroller. We have developed a BASIC interpreter and LADDER processor Operating System and embedded it in the microcontroller. When user created programs, it gets stored in its Flash memory. Once powered is cycled (turned OFF and ON), the program that was last stored to the Flash memory is executed.

Q I have been using PLCs, what is the advantage of switching to CUBLOC?

MAX Well if you use PLCs, the size of your final product will be large, and maintenance costs will be high. Plus, think about all the labor costs of putting the PLC together. If you use CUBLOC, you will be able to reduce the size of your final product, go into production using PCBs, and cut the overall product, maintenance, and labor costs by many factors.

Q What happens if you connect to the internet?

MAX You can use XPORT internet module to connect to the internet and be able to remotely control, monitor, and download new programs to your CUBLOC, CuTOUCH, and BASE-Board. By using XPORT, you will be able to cut travel costs and time by being able to control your device from anywhere in the world! Simply use an XPORT Dongle to connect XPORT to your CUBLOC. Then use our FREE Java Server software to enable your module!

Q Can I use CuTOUCH instead of the Touch Screen I am using now?

MAX Well, most touch screens only have a graphic user interface. They do not possess the capability to act as a PLC or an embedded computer. CuTOUCH not only has a touch screen support, it also embeds CUBLOC so the user may program using BASIC and/or LADDER.

Q We want to go into mass-production with CUBLOC, can we get discounts? development?

MAX Yes, we can give you discounts by providing you with CUBLOC CHIP-SET for mass-production. For the chip-set type CUBLOC, we will provide you with the Atmel chip with our BASIC interpreter and LADDER processor embedded.

For development of actual products, depending on the size of the project and length of development time and availability, we can give you a quote. Please ask our engineering team for more information. You can call us or email engineer@comfiletech.com

Q What do I need to get started?

MAX I recommend the START KIT. The START KIT includes a CUBLOC module, study board, Manual, install CD, and some wires. (9V 500mA Adaptor must be purchase separately or you can use your own) The START KIT has LEDs, switches, Volume Knobs, piezo, breadboard, and other peripherals so you can quickly learn and test your CUBLOC.

Tel: 1-888-9CUBLOC / 1-888-928-2562 (toll free)
You can also email me at: support@comfiletech.com

