

LCD Touch Screen Modules

GT-CP-series -Command Controlled-

Easy to develop with a simple control!

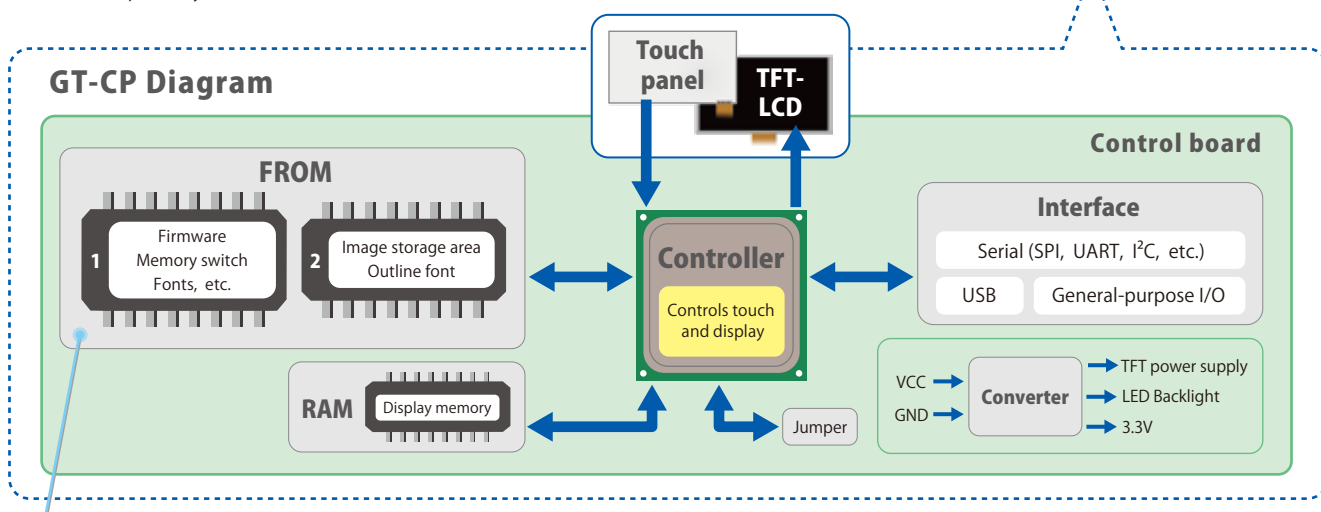
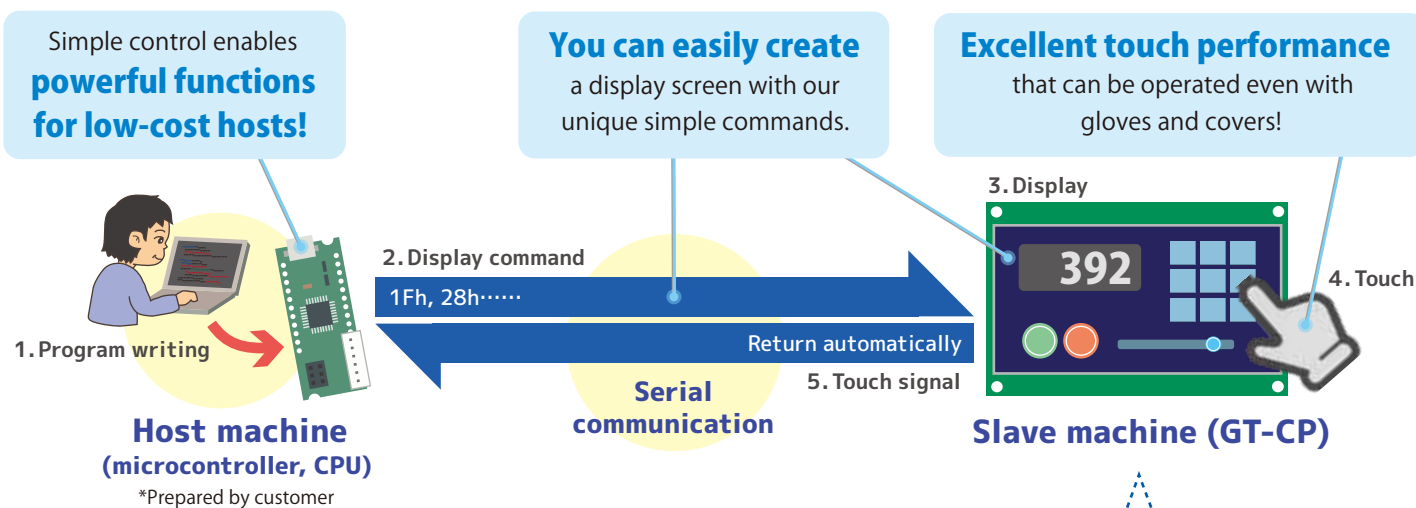
It is a unique touch display product, which is bright and easy to see and can be controlled by an inexpensive host microcontroller. It can be used by incorporating it into your device/equipment.



• Features & Configuration

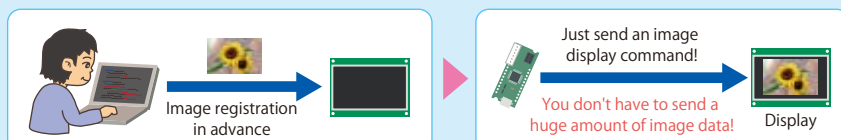
The GT-CP is a command-controlled LCD Touch Screen Modules. It is typically used as a slave device (operated under the control of the host).

Simple set of commands similar to our VFD modules. Just send the character code from the host. You can easily control the touch and the display.



Reduce host burden by registering images!

By using a PC and development support software (provided by us) and registering images in FROM beforehand, images can be displayed with minimal load on the host.



• Three control methods

Select the most suitable control method for your application.

1. Direct control

A common control method that sends control commands directly from a host or PC.

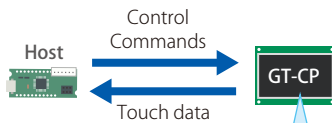


Image and font data can be registered using the memory tool function of the development support software.

2. Macro control

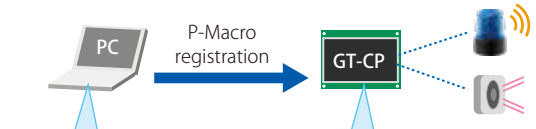
A control method in which a series of control command processing is registered as a macro and executed repeatedly.



A sequence of commands can be registered for processing in a continuous loop, until data is received from the host.

3. P (program)-macro control

The GT-CP can operate autonomously, following user-programmed control commands, calculations, conditional branching, and loops, registered as a P-macro.



Program development using "support software".

GT-CP can operate autonomously by itself, including automatic control of peripheral devices with general-purpose I/O ports!

• Development support software [GTOMP]

GTOMP is a software, which will assist you during your GT-CP development. You can download it free-of-charge from the Technical Support page on our website (no installation required).

[Main functions : Screen design, data registration and storage in FROM (images and outline fonts), creation and edit of P macro programs]



• Lineup / specifications

Display Size (mm)	4.3 inch		5 inch	7 inch	
	95.04 x 53.86		108.0 x 64.8	154.08 x 85.92	
Model	GTWQ043C3A00PA	GTWQ043C3B00PWA	GTWV050C3A00PA	GTWV070C3A00PA	GTWV070C3A01PA
	Standard model *2	Wide operating *1 temperature model	Standard model	Standard model	RS232 I / F model
Display Resolution (pixels)	480 x 272		800 x 480		
Pixel pitch (mm)	0.198 x 0.198		0.135 x 0.135	0.1926 x 0.179	
PCB Size (mm)	108.0 x 80.0		120.7 x 88.6	165.0 x 118.5	
Brightness [Typ.] 25°C	850 cd/m ²		810 cd/m ²	850 cd/m ²	
Operating Power [Typ.]	5V / 440mA	5V / 410mA	5V / 610mA	5V / 720mA	
Number of Colors	16.7M colors		65k colors		
Operating Temp. (°C)	-20 to +70	-30 to +85	-20 to +70		
Interfaces	UART, I ² C, SPI (CMOS 3.3V)				RS232
	USB (High-speed / Full-speed)				

Common subject matter

• I/O Ports

26 bits General-purpose I/O port

• Character Fonts

ASCII / Japanese / Chinese / Korean (Outline font)

• Touch Detection

Metallized Projective Capacitive Touch

• Multiple Touch

supported (1-point touch for best wet-screen performance)

*1 : Wide operating temperature model on sale! (4.3 inch size)

A new model with a wider operating temperature range.

A 7-inch size product will be released this summer!

Please consider using it in a harsh temperature environment.



As of Apr. 2022

*2 : There is also a model equipped with a cover glass.

Please contact us for more information.

The touch panel is made of thin glass, so be careful when handling or assembling it. The touch sensitivity characteristics differ from product to product and can vary due to the effect of ambient environment, etc., so individual tuning may be required.

itron

NORITAKE ITRON CORPORATION

Noritake

The information desk

Product demos (online available), quotations, technical questions, etc ...

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