

# Smart LCD

LCD Module Professional Manufacturer  
**STABLE & RELIABLE**

**FAST**

Shorten Development Time  
Zero Coding

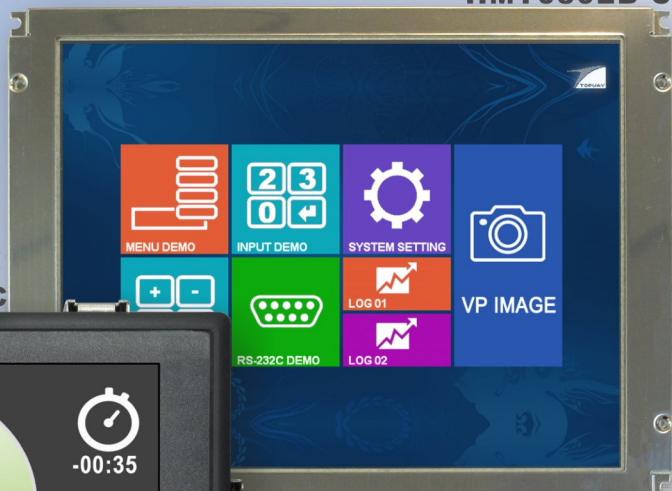
**VALUE**

Simplifies Hardware  
Saves BOM Costs

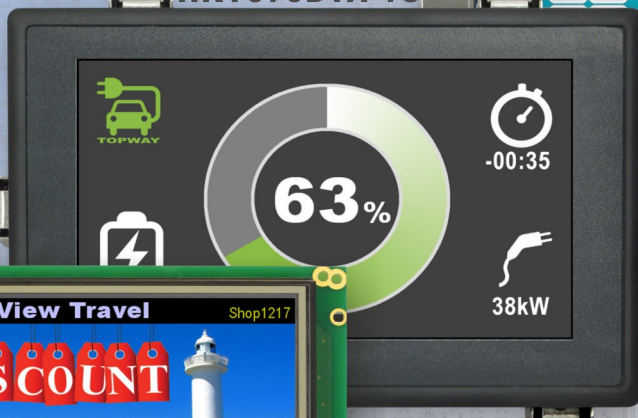
**RELIABLE**

High Endurance of noise  
Industrial Level

HMT080EB-C



HKT070DTA-1C



HMT070CQ-C



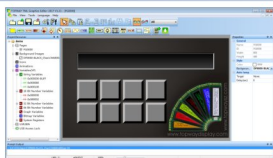
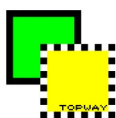
HMT050CC-C



HKT043ATA-1C



## LOAD & PLAY ZERO CODING



Graphics Editor



Functional Elements

VP variables

please contact us for further information & options



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# Smart LCD

## Highlights

TOPWAY Smart LCDs embed a display engine and a versatile range of TFT display sizes and Touch-Panels to support a wide range of industrial and instrumentation applications.

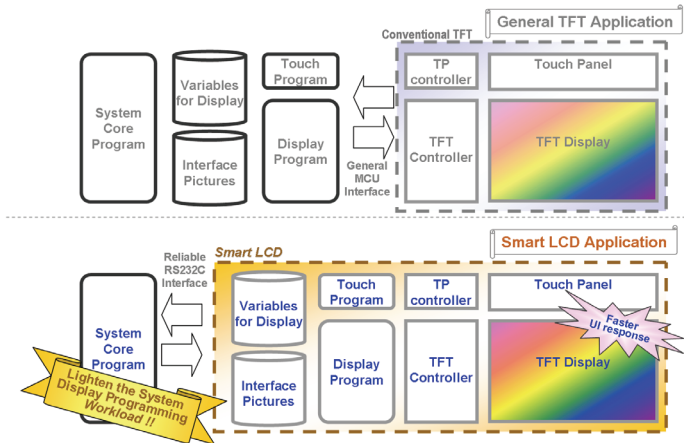
The pre-loaded User Interface (UI) reduces the host system's workload and provides a much faster interaction with the user.

UI designs are implemented under usage of TOPWAY Graphics Editor allowing designs with zero coding. It dramatically simplifies and speeds up the whole product design process.

## Main Specification

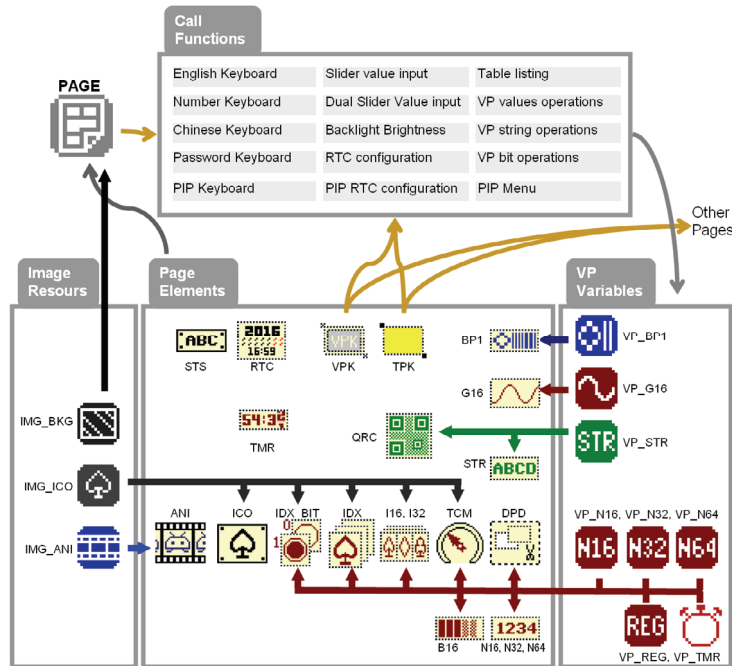
Display : Industrial TFT Display  
(3.5", 4.3", 5.0", 5.6", 6.8", 7.0", 8.0", 9.0", 10.4")  
Backlight : High Brightness LEDs Backlight  
Touch Panel : Industrial Resistive /Capacitive Touch Panel  
Memory : 256MB high speed flash  
(equivalent 349 (800x480)background images) (\*2)  
Operating Temperature : -20 ~ +70°C  
Storage Temperature : -30 ~ +80°C

## Smart LCD vs. Conventional TFT



Smart LCDs allow a much simpler system core program. They handle all the display and touch routines and allow the core CPU to focus on its dedicated job. Smart LCDs are a simpler and less expensive way to equip a system with a color display and touch panel. Smart LCDs provide a UI, which is created by TOPWAY's Graphics Editor, allowing the creation of comprehensive graphical interfaces with zero coding. Smart LCDs do not require any additional display control software. It can dramatically shorten the UI design process and boost the product design turnaround-time.

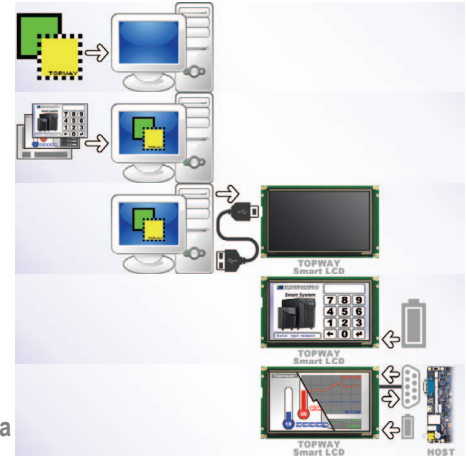
## Functions Flow



- The Smart LCD's UI is organized in Pages.
- Each Page allows the usage of a Background Image or a single Background Color.
- Each Page can contain various kinds of elements.
- The Host can access and modify variables at any time.
- Variables' contents can be displayed via elements in real-time.
- Touch/Virtual-Keys can call functions (e.g. keyboards), modify variables or even jump to other Pages.
- All the above functionality can be implemented with TOPWAY's Graphics Editor and does not require actual coding work (zero coding).

## Quick Start

- 1 Install TOPWAY Graphics Editor
- 2 Import pictures design UI flow
- 3 Download to Smart LCD
- 4 Power on & display
- 5 Connect to host Show real time data



## Major Models

Model	Outline (mm)	Resolution	I/F	Bezel	T/P
HMT035ATA-C.	93.0 x 70.1 x 13.8	320 x 240	RS-232C		O
HMT043FC-1C.	121.9 x 74.7 x 15.0	480 x 272	RS-232C		O
HKT043ATA-1C	139.0 x 97.0 x 22.0	480 x 272	RS-232C	O	O
HMT050CC-C.	143.5 x 80.9 x 14.8	800 x 480	RS-232C		O
HKT050ATA-C	160.0 x 105.0 x 22.0	800 x 480	RS-232C	O	O
HMT056DA-C.	144.8 x 110.2 x 21.6	640 x 480	RS-232C		O
HMT068ATA-C	195.0 x 69.9 x 32.1	1366 x 480	RS-232C		O
HMT070CQ-C.	185.9 x 109.5 x 18.9	800 x 480	RS-232C		O
HKT070DTA-1C	200.0 x 125.0 x 30.0	800 x 480	RS-232C	O	O
HMT080EB-C.	196.0 x 143.9 x 17.2	800 x 600	RS-232C		O
HKT080ATA-C	217.0 x 175.7 x 24.3	800 x 600	RS-232C	O	O
HMT090CA-C.	226.9 x 150.5 x 22.4	800 x 480	RS-232C		O
HMT104ATA-C	247.8 x 193.7 x 19.4	800 x 600	RS-232C		O

Note:

For semi-custom made or full-custom made products, please contact us for further information & options.

## Main Features

### 2x Action Type Elements

Touch Key, Virtual Key

### 5x Characters Type Elements

Static String, String Element, Number Element(\*1), Timer Display, Real Time Clock

### 6x Image Type Elements

Static Icon, Animation Element, Bit Icon, Indexed Icon, Tachometer, Decimal Icon

### 5x Graphic Type Elements

Progress Bar, Graph Element, Bitmap Element, QR Code Element, Draw Pad

### 14x Action Call Function - Keyboards

Keyboard Number, Keyboard Password, Keyboard English, Keyboard Chinese(GB2312) PIP Menu, PIP Keyboard, Slider Single, Slider Dual, Adjust Backlight, Adjust RTC, PIP Adjust RTC, Listing, Listing with Slider

### 20x Action Call Function - Operations

Provide basic operation, byte operations, bit operations

## Supported Character Coding and Variables

### 11x Country ASCII

USA, France, Germany, UK, Denmark I, Denmark II, Sweden, Italy, Spain, Japan, Norway

### 19x Extended Code page

1254(ANSI-Turkish), 1256(ANSI-Arabic), 1257(ANSI-Baltic), 932(ANSI/OEM-Japanese Shift-JIS), 1251(ANSI-Cyrillic), 866(OEM-Russian), 1250(ANSI-Central Europe), 852(OEM-Latin II), 437(OEM-United States), 858(OEM-Multilingual Latin+Euro), 1252(ANSI-Latin I), 865(OEM-Nordic), 863(OEM-Canadian French), 860(OEM-Portuguese), 874(ANSI/OEM-Thai), 1255(ANSI-Hebrew), 1253(ANSI-Greek), 737(OEM-Greek437G), 1258(ANSI/OEM-Viet Nam)

### 5x Double Byte Char Set

GB2312(Simplified Chinese), GBK(Simplified Chinese), Big5(Traditional Chinese), EUC-KR( Korea ), Shift-JIS ( Japanese )

### 6x VP Variable

16bit-Integer Variable, 32bit-Integer Variable(\*1), 64bit-Integer Variable, 16bit-Graph Variable, String Variable, Bitmap Variable, Register Variable, Timer Variable

Note: \*1. floating value display support

\*2. feature and function may vary by model

\*3. TOPWAY reserves the right to update the functionality of the products without prior notice.