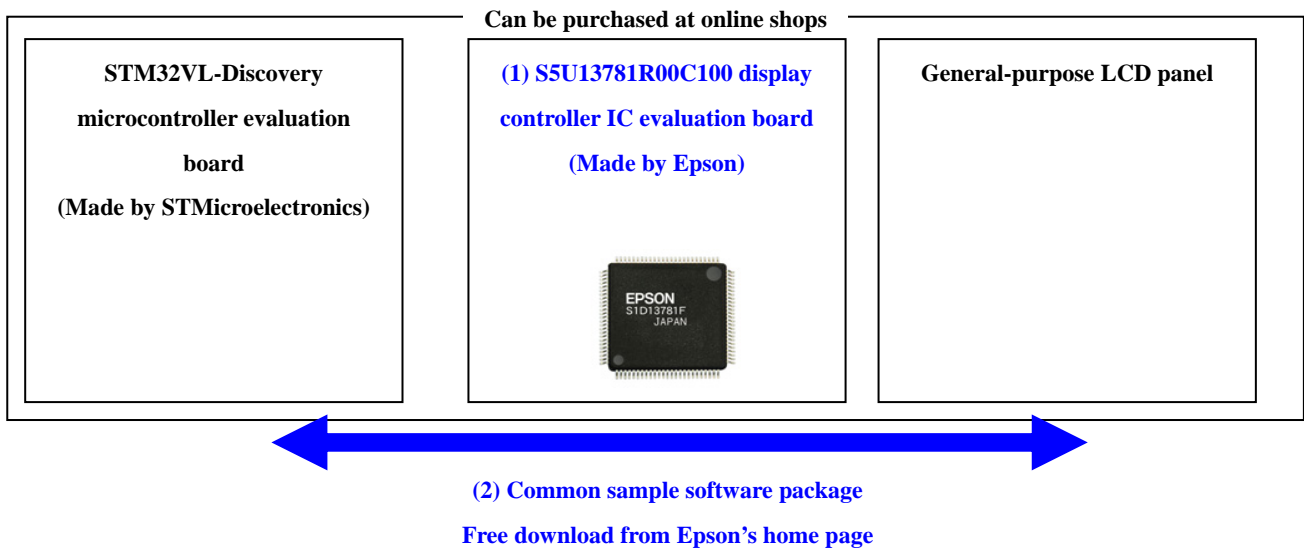


About the Display Controller IC Reference Design

Epson's display controller IC reference design includes: 1) a display controller IC evaluation board, and 2) a common sample software package.

The reference design can be purchased at various online shops along with a microcontroller evaluation board and an LCD panel. Then by using the common sample software package downloaded for free from Epson's home page, customers can easily perform the evaluations needed to develop a product with an LCD panel.

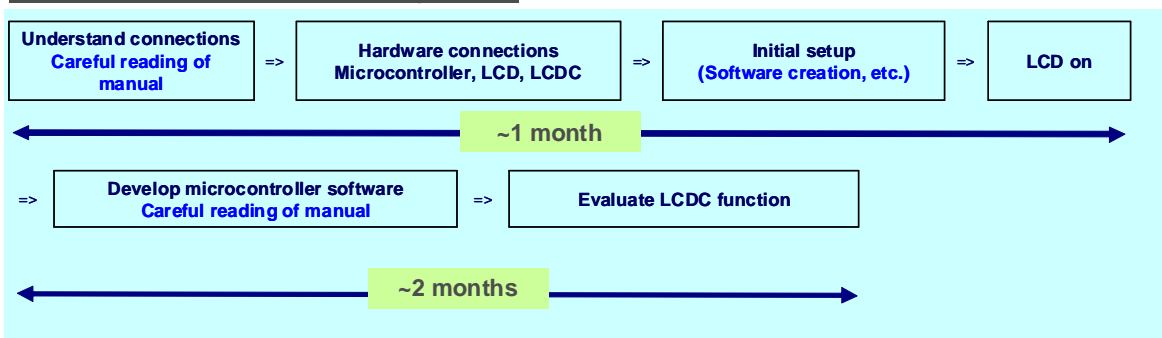
Performing evaluations using Epson's S5U13781R00C100 display controller IC evaluation board



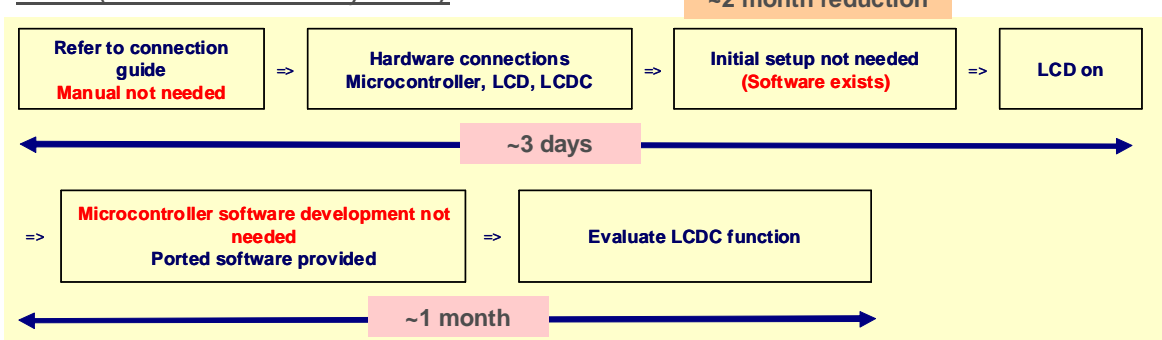
Product website: http://www.epson.jp/device/semicon_e/product/lcd_controllers/

Image of how using the reference design leads to shorter development time

Before (without reference system)



After (with reference system)



See the attachment for an outline of the reference design specifications.

Specifications

Main specifications of S5U13781R00C100 display controller IC (S1D13781) evaluation board

Product number	S5U13781R00C100
Contents supplied	Board
Included display controller IC	S1D13781 (QFP15-100 pin: 0.5 mm pitch)
Supply voltage	Single 3.3V ±0.3V
Clock	24 MHz Epson Toyocom crystal oscillator included
Connection to microcontroller evaluation board	8/16-bit parallel bus and serial (SPI)
Connection to LCD panel	0.5 mm pitch 55 pin FPC connector and 2.54 mm pitch conversion board included



LCD panel backlight power source	White LED driver included (Max. 38V/60 mA with 5V input)
Flash memory for image data storage	16 Mbit SPI Flash included
Dimensions	70 x 60 mm

*Specifications are subject to change without notice.