

# EGC601-SS01

Display Board  
for Digital Signage  
and Industrial Equipment



Slimline Design (9.8mm)

"EGC601-SS01" is designed as a display board for the digital signage applications which emphasizes picture quality, utilizing high-resolution graphics controller LSI "EGC601". Without a host CPU, the controller LSI displays full HD size pictures independently for 2 displays. Various memory devices and LAN connections are supported. Low power consumption enables operations in an airtight case or container.

## Features

- **Simple Intelligent Digital Signage Solution**  
SoC LSI with powerful CPU produces picture/movie and interacts.
- **High-resolution**  
Full HD resolution (1920x1080) for 2 display ports
- **Graphical Effects**  
Five layers alpha blending engine creates effects  
Telop engine flawlessly run letters/characters and even pictures
- **Video Input**  
Up to 1080i digital video signals can be captured and be merged with other graphics
- **Expandability**  
Video outputs are switchable CMOS or LVDS, as to drive monitors via HDMI/DVI TX, or directly drive LCD panels.  
USB, LAN, SD Card and RS-232C can be connected directly.
- **Super Slim Size**  
9.8mm slim form board fits behind display.

## Application

- Digital Signage Player
- Programmable Logic Controller
- Media Vital Sign Display
- Mobile Information Terminal

## Functions

- |                      |  |
|----------------------|--|
| ■ Max Resolution     | 2048 x 1536 @60fsp   |
| ■ JPEG Decoding      | 2048 x 2048  |
| ■ MPEG2 Decoding     | 320 x 240 @30fps   |
| ■ Max Camera Capture | 3million pixel @30fsp  |
| ■ Drawing Operations | Scaling, Rotation<br>5-layer alpha blending<br>Telop(letter and picture) |

## Specification

- |                       |   |
|-----------------------|---|
| ■ Graphic LSI         | EGC601  |
| ■ CPU                 | internal<br>(Full-custom ASIC of ALTERA's NIOS-II)                                    |
| ■ Main Memory         | DDR2-SODIMM max 2GB   |
| ■ Flash Memory        | 64MB(std) / 128MB(max)  |
| ■ SD Card             | JFF2 format   |
| ■ Expansion Slot      | mini PCI Express  |
| ■ Expansion Connector |   |
| Video Output          | LVDS for LCD panel, CMOS for RGB<br>x2(UXGA) x4(XGA) x1(QXGA)                         |
| Video Input           | YUV/RGB, LVDS/CMOS x1<br>SD Card x1<br>USB x2<br>LAN 10/100Base-T x1<br>Serial I/F x1 |
| ■ Dimension           | 115 x 165 x 9.8mm   |
| ■ Operating Condition | -10 ~ +70°C   |
| ■ Power Supply        | Single 9V~20V, 0.8A@12V   |
| ■ Operating System    | μCLinux   |
| ■ GUI Builder         | WideStudio  |

Note)

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