

Image Processor and Landscape Display Driver for Handheld GPS and Digital Photo Viewer Applications

The kit solution of Solomon Systech's Image Processor (SSD192X) family together with the SSD2116 landscape QVGA driver provides solutions for GPS and Digital Photo Viewer applications.

When people think of handheld/small size devices, they think of mobile phones and MP3 players. However, explosive opportunities continue to exist for other handheld and small-size devices. The Handheld Global Positioning System (GPS) and Digital Photo Viewer markets are expected to kick off in the near future. Volume in the handheld GPS market for 2006 was around 19.6 million units and is expected to reach 73.5 million units in 2010, for a compound growth of rate of 39%. As end sales prices continue to drop in the Digital Photo Viewer market, Solomon Systech expects that this market will reach a critical point where the Digital Photo Viewer will become a home accessory as well as a popular gift.

Solomon Systech is ready for this wave of opportunity, as it has introduced a range of graphics controllers, image processors and display drivers to enable the development of the Handheld GPS and Digital Photo Viewer. Unlike a handset display, the Handheld GPS

	MCU 8-bit	16/18 bit RGB	8-bit RGB (serial RGB)
SSD1921		x	x
SSD1922	x	x	x
SSD1926	x	x	x
SSD1928	x		x

and Digital Photo Viewer both typically use a landscape mode instead of a portrait mode display. Therefore, Solomon Systech has simultaneously released a landscape driver solution. The SSD2116 is the first single-chip landscape QVGA solution in the market and integrates gate and source power blocks, a separated programmable gamma curve for RBG color and MTP functions. The SSD2116 is the best single-chip landscape display driver that perfectly suits these hand held and small-size applications.

Apart from the display, another key component of these applications is the image processor. Solomon Systech's SSD192X family is able to interface with different types of generic microcontrollers popular in

the Handheld GPS and Digital Photo Frame market. This image processor family supports an indirect addressing mode that minimizes the pin count of control signals. The SSD192X also works with a range of displays.

Time-to-market is the key for consumer electronics. To shorten the development cycle, Solomon Systech will launch reference designs for the Handheld GPS and Digital Photo Frame in the near future.

In conclusion, the kit solution of SSD192X family together with the landscape mode SSD2116 driver, enables end product companies to catch the coming wave of Handheld GPS and Digital Photo Frame applications, and enables designers to shorten their development cycles.

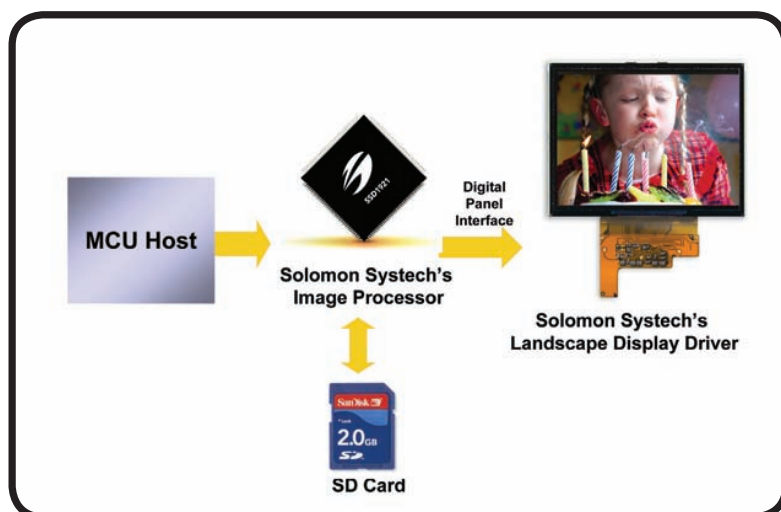


Figure 1: Block Diagram of Solomon Systech's Image Processor (SSD192X) with SSD2116 landscape QVGA driver

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franchised locations

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