

S2S65P10

Multi Video Input Interlace / Progressive Conversion IC

■ DESCRIPTION

S2S65P10 is an IC which converts the interlace signals into the progressive signals. Combining S2S65P10 with the image controller IC (S2S65A00) or the network camera controller IC (S1S65010) makes it possible to convert the digital signals sent from the NTSC/PAL video decoder into the JPEG format. S2S65P10 has a large-capacity SRAM built in, so it requires no external RAM. S2S65P10 has four channels of video input, and provides versatile screen outputs, including fixed, auto-scan, and 4-input-merge screen outputs. It has also the moving-object detection function built in. It interrupts the host CPU upon detecting a moving object, so it saves power consumption of the system.

■ FEATURES

Video input

4 ch. for input, out of which 1 ch. is shared with video output.

8-bit input mode

Complies with ITU-R BT.601 (4:2:2) / ITU-R BT.656

Compatible with NTSC/PAL

Compatible with interlace input/progressive input

Video output

2 ch. for input, out of which 1 ch. is shared with video input.

8-bit output mode

Complies with ITU-R BT.601 (4:2:2) / ITU-R BT.656

Compatible with progressive output

30fps@VGA

4 - 1 Intelligent Image Switch function

Compatible with 4-inputs-merged screen (QVGA x 4 = VGA)

Host interface

I²C interface

Interrupt by detecting moving object

Image Processing

Interlace/Progressive Conversion

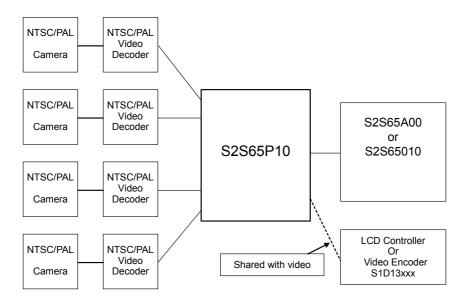
Conversion of aspect ratio

Area sensor (for moving object detection)

- Camera control output/GPIO
- No external RAM required
- Guaranteed operating temperature: -40 +100 °C
- Source Voltages: 1.8 V (core), 2.4 3.6 V (I/O)
- Package: QFP15-100pin (14 x 14 x 1.4 mm, 0.5 mm pin pitch)

S2S65P10

■ BLOCK DIAGRAM



■ COMBINING AS A CHIPSET WITH IMAGE CONTROLLER IC (\$2\$65A00) THAT SUPPORT DUAL CAMERA, AND WITH NETWORK CAMERA CONTROLLER IC (\$1C65010)

S2S65P10, combining as a chipset with the image controller IC (S2S65A00) that supports dual camera, can connect with eight camera sets (each consisting of camera module + NTSC/PAL decoder) at the maximum. S2S65P10 can also connect with four camera sets (module + NTSC/PAL decoder) at the maximum by combining as a chipset with the network camera controller IC (S1S65010).

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