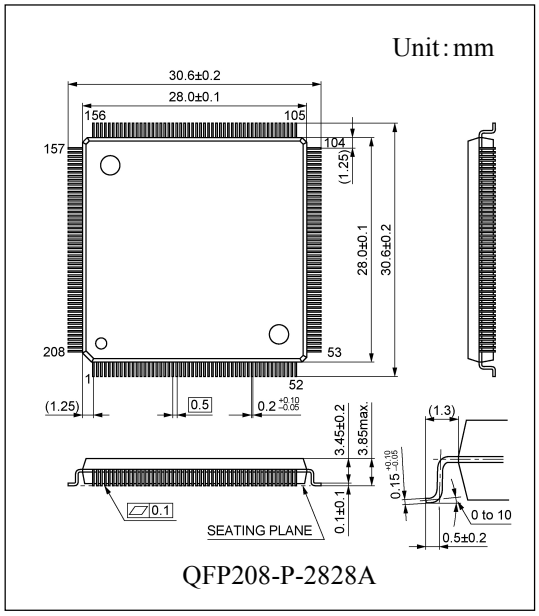
Panasonic

for pixel display device

Digital RGB Processor LSI MN82860

■ Overview

This system LSI , MN82860 is a digital RGB processor adapted for high-quality picture of pixel display device. This LSI includes all of picture quality improvement and high speed A/D converter , and realizes high speed processing (100 MHz) . So it is suitable for pixel display device dealt with high quality picture and high detailed video.



QFP208-P-2828A

■ Feature

- INPUT
  - Analog/Digital YUV signal
  - Analog/Digital RGB signal
- OUTPUT
  - Digital RGB signal
- INPUT OUTPUT (Digital each 8 bit)
  - YUV signal
- Main Function
  - ・Clamp control (Clamp current source including)
  - ・Black/White expansion
  - ・White character improvement
  - ・Horizontal aperture correction
  - ・Contrast adjust
  - ・Brightness adjust
  - ・Color control
  - ・Demodulation axis adjust
  - ・Demodulation gain adjust
  - ・RGB matrix
  - ・OSD data insert (RGB each 2 bit)
  - ・White balance adjust
  - ・γ correction (RGB independence)
  - ・8 bit high speed A/D converter (3 ch)
  - ・I^2C bus control
- Specification
  - ・Clock frequency 20 MHz～100 MHz
  - ・Supply Voltage 3.3 V±0.165 V
  - ・Package 208-pin QFP (28 mm□、0.5 mm pitch)

■ Applications

Pixel display device such as PDP,LCD

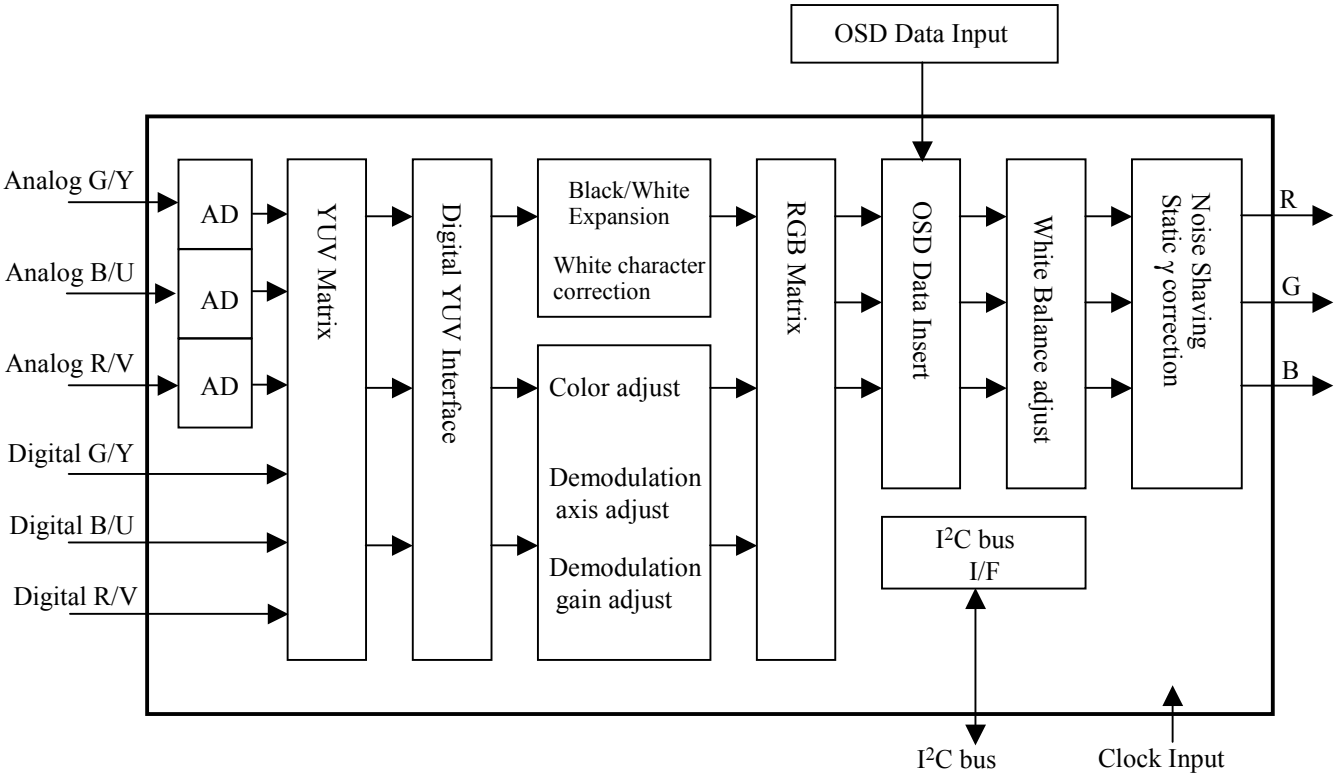
Semiconductor Company, Matsushita Electric Industrial Co., Ltd.

1.Kotari Yakemachi, Nagaokakyo, Kyoto, 617-8520 Japan Tel. (075)951-8151 http://www.mei.panasonic.co.jp/semicon

M00418BE

New publication, effective from Oct.1 2001.

■ Block diagram



■ System Configuration