

DATA SHEET

Part No.	MN82860
Package Code No.	QFP208-P-2828A

SEMICONDUCTOR COMPANY
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

MN82860

Digital RGB Processor LSI

■ Overview

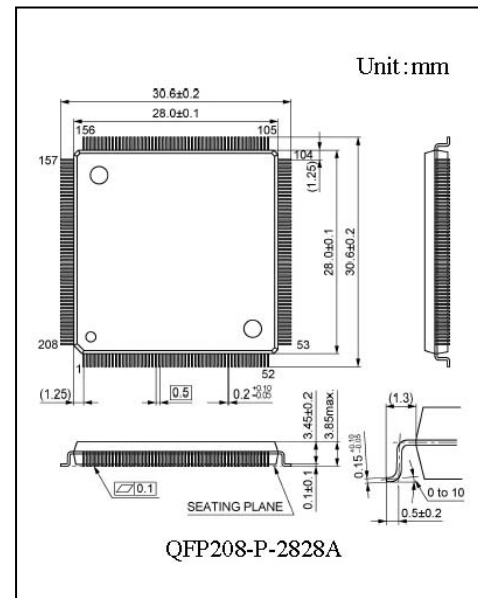
This system LSI, MN82860 is a digital RGB processor adapted for high-quality picture of pixel display device. This LSI includes all of picture quality improvement and high speed A/D converter, and realizes high speed processing (100 MHz). So it is suitable for pixel display device dealt with high quality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

■ Feature

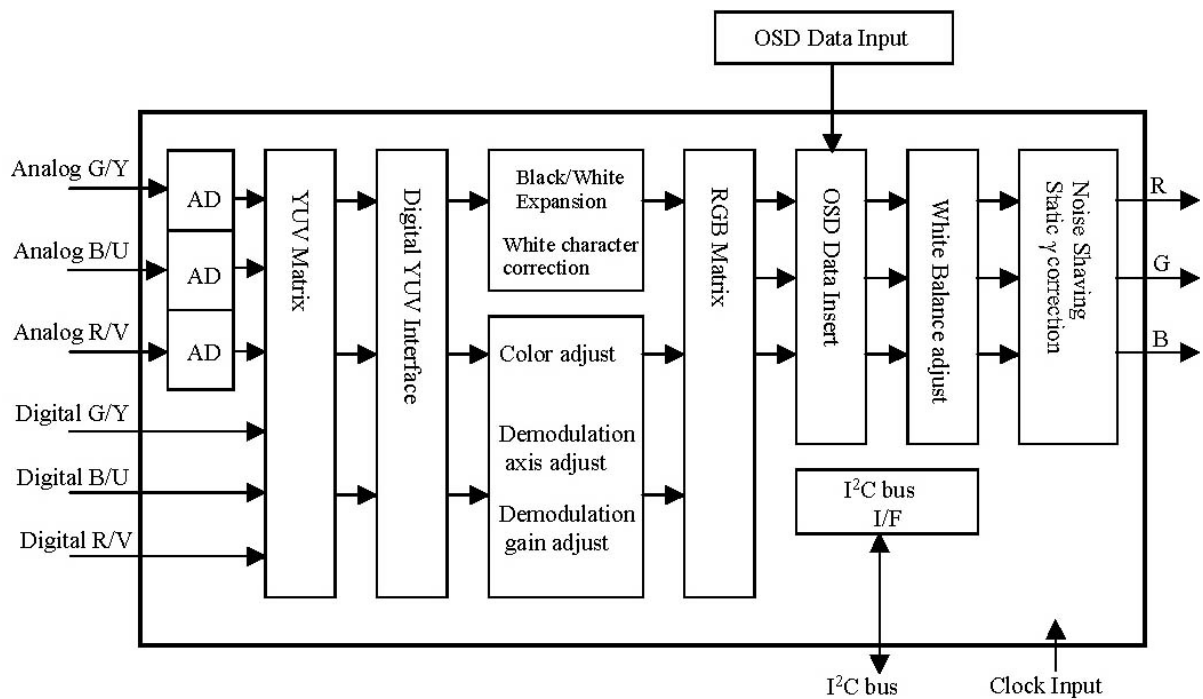
- INPUT
 - Analog/Digital YUV signal
 - Analog/Digital RGB signal
- OUTPUT
 - Digital RGB signal
- INPUT OUTPUT (Digital each 8 bit)
 - YUV signal
- Main Function
 - Clamp control (Clamp current source including)
 - Black/White expansion
 - White character improvement
 - Horizontal aperture correction
 - 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)
 - I²C bus control
- Specification
 - Clock frequency 20 MHz to 100 MHz
 - Supply Voltage $3.3\text{ V} \pm 0.165\text{ V}$
 - Package 208-pin QFP ($\square$ 28 mm, 0.5 mm pitch)

■ Applications

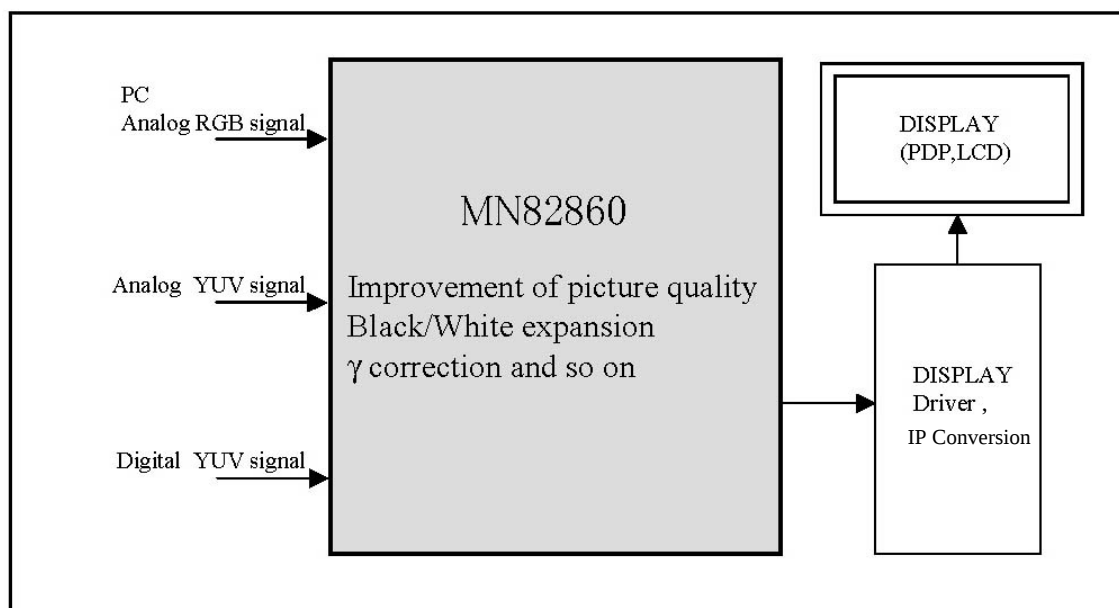
Pixel display device such as PDP, LCD



■ Block diagram



■ System Configuration



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