

Part No.

MN673747 MN673747H MLGA239-C-1111

Package Code No.

# MN673747, MN673747HL

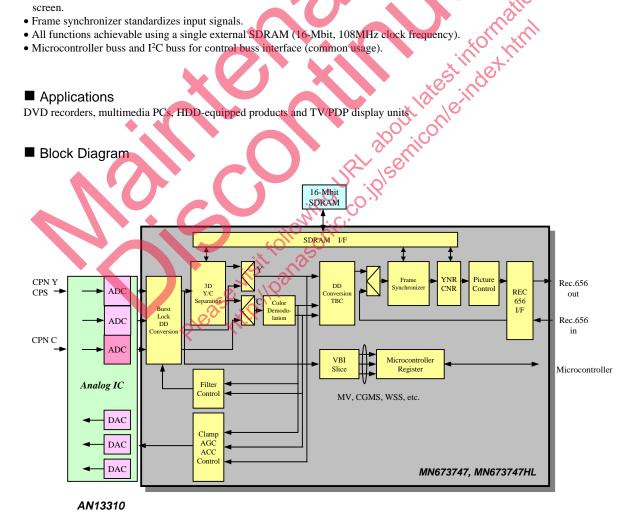
### **Digital Conversion LSI**

### Overview

MN673747, MN673747HL digital conversion LSI converts analog video signal inputs of NTSC/PAL (Y/C, composite video), SECAM (composite video) and Y/Cb/Cr (component) signals into ITU-R BT.656 format signals (international standard for digital video signal transfer) before output.

### ■ Feature

- Increased Y/C separation (2D and 3D) accuracy of 9 bits.
- All processes from A/D conversion to Rec. 656 output handled at single fixed clock frequency of 27MHz.
- · Velocity error/jitter correction used for TBC (Time Base Corrector) ensures accurate time axis correction for the full

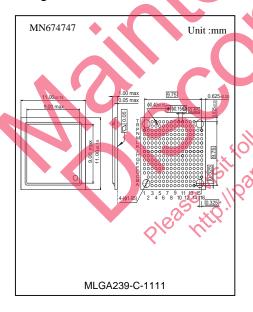


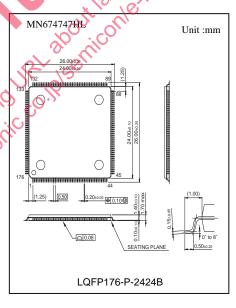
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## ■ Specifications

	Motion-adaptive 3D Y/C separation, TBC,
Functions	3D noise reduction, DD conversion,
	frame synchronization
Analog Input	Composite signals and Y/C, Y/Cb/Cr signals
Digital Input/Output	ITU-R BT.656 × 1
Process	0.15 μm 4-layer AL
Operating Frequency	108.0 MHz max. (27 MHz system clock)
Power Supply Voltage	3.3 V ± 0.3 V (analog block) 3.3 V ± 0.3 V (digital input/output block) 1.8 V ± 0.15 V (internal digital block)
Package	239-pin, 0.65 mm-pitch  11 mm C-CSP 176-pin, 0.5 mm-pitch  24 mm LQFP

## ■ Package





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