Panasonic

New

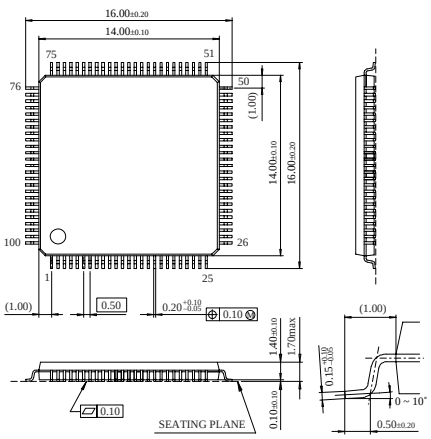
For MD System

Signal and Servo Processing LSI MN66618

■ Overview

The MN66618 is a signal and servo processing LSI for MD(Mini Disc) players/recorders. This LSI is equipped with audio signal processing functions including ATRAC encoding/decoding and digital audio interface, digital signal processing functions such as EFM modulation/ demodulation, ACIRC encoding/decoding and ADIP demodulation. It also includes digital servo processing and shock-proof memory control functions. When combined with an RF amplifier IC (AN8774FHQ), audio ADC/DAC, DRAM and a system controller, the MN66618 brings together an MD player/recorder system.

Unit:mm



LQFP100-P-1414

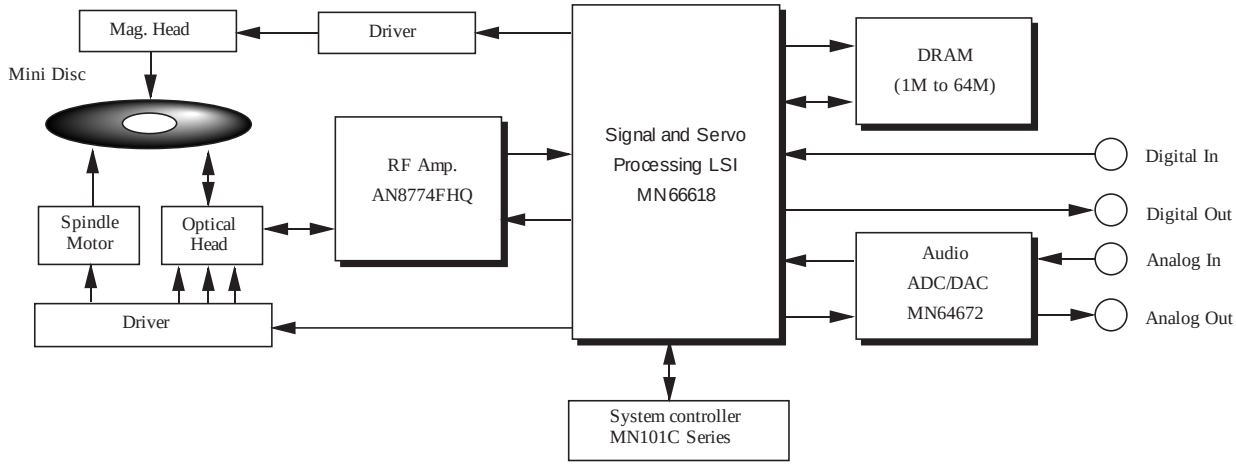
■ Features

- ● Digital servo processing.
  - • Focus, tracking, traverse, spindle servo (with automatic adjustment).
  - • Provided with multiple commands (system controller load reduction, automatic adjustment/start-up time reduction).
- ● Audio data compression/expansion.
  - • Uses high audio-quality coding algorithm. • Built-in sample rate converter.
  - • Built-in digital PLL for digital audio interface (reduces number of necessary parts).
- ● Shock-proof memory control:accommodates to 1M,1M×2,4M,4M×2,16M and 64M DRAMs.
- ● High-speed system controller interface:64Mbps max.,reduces wait time.
- ● Wide range of added functions.
  - • 256-step attenuation (10-bit smooth fade), bass boot function (6 options).
  - • Peak value/spectrum analyzer data output (stereo), in memory variable speed playback (1.6×,2.2×,2.8×).

■ Applications

- ● MD player/recorder system.

■ System Block Diagram



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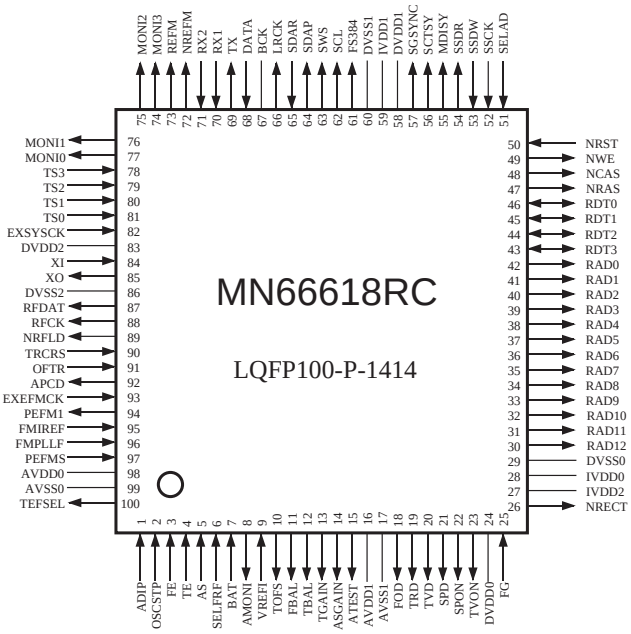
■ Spacifications

Parameter		Part No. MN66618
Power supply voltage	Peripheral I/O	3.3V±0.3V
	Internal digital circuit	2.5V±0.2V
	Internal analog circuit	3.3V±0.3V
Power consumption		100mW(typ.)
Operating ambient tempetature		-30 to +85ºC
Operating frequency		16.9344MHz
Package		LQFP100-P-1414

■ Pin Assignment



■ Block Diagram