Panasonic

SD Interface LSI   MN5772

■ Overview

MN5772 has an interface with the SD Memory Card which is a recordable medium complying with the copyright protection, certifies each other between the SD Memory Card by the mutual authentication of the SDMI standard conformity, encrypt/decrypt the contents with C2 cipher. MN5772 changes decrypted data to the elementary stream data which can be decoded with AAC decoder (MN67736LA).

■ Feature

● High-speed encrypt/decrypt processing by C2 Core (hardware) Feature.
● Copyright protection function of the SDMI standard conformity.
● High-level security system using the mutual authentication.
● Asynchronous hand-shake micro processor interface(16bit).
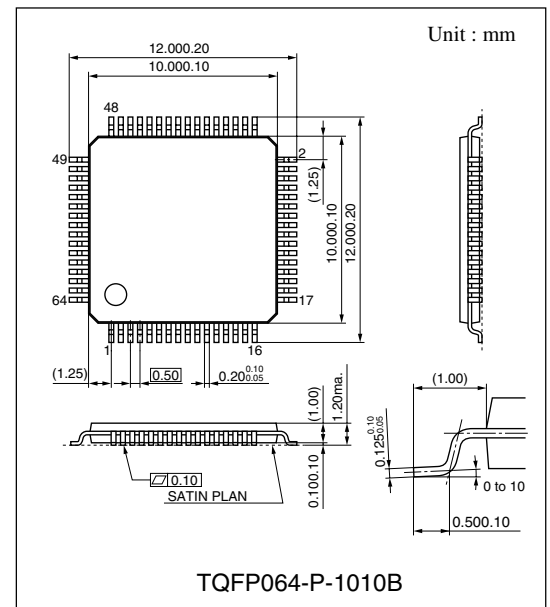● 2-ports for SD-card
● Evaluation board is available

■ Applications

● PDA,DSC etc

Unit : mm

TQFP064-P-1010B

■ Specifications

MN5772
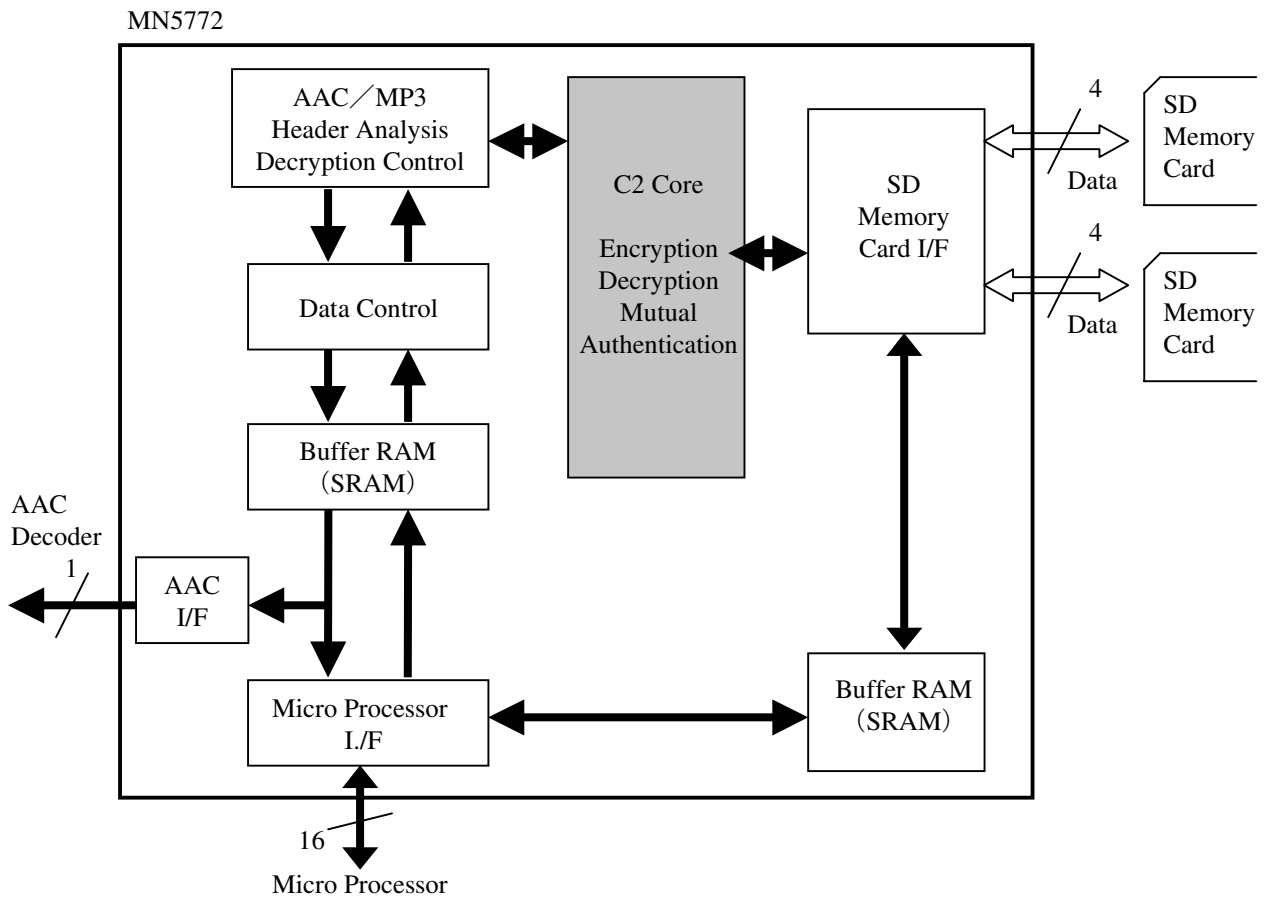
Item	Contents
Copyright Protection	Mutual authentication of SDMI standard conformity
Cryptography	C2 cipher
Key	56 bit common key
Audio Output	AAC decoder interface:1 bit stream output
Audio format	AAC/MP3 header analysis
Microprocessor I/F	MN10200 series, complying asynchronous hard-shake(16 bit)
Process	0.30 μm 3-layer metal CMOS
Clock Frequency	31 MHz
Power Supply Voltage	3.3 V
Power Consumption	(Under Development)
Package	64 pin TQFP(10 mm on a side)

The products and specification are subject to change without any notice. Please ask for the latest Product Standards to guarantee the satisfaction of your product requirements.

Semiconductor Company,   Matsushita Electronics Corporation

■ Block Diagram

MN5772

■ Evaluation board