

MB85RF402

FRAM-embedded EDID Memory LSI



■ Overview

MB85RF402 is memory LSI for EDID, supporting 4 channels of DDC interface.

MB85RF402 is embedded 2Kbit FRAM, makes it possible to consolidate HDMI and EDID memories into one-chip on digital TVs.

■ Features

- 4-channel DDC(I2C) interface embedded

4 ports are available for HDMI(DVI).

Reduce the number of components/ mounting area, and Contribute to cost reduction.

- Non-volatile memory FRAM embedded

Embedded FRAM, non-volatile memory featuring high-speed read/write.

Contribute to manufacturing cost reduction by shortening the writing time.

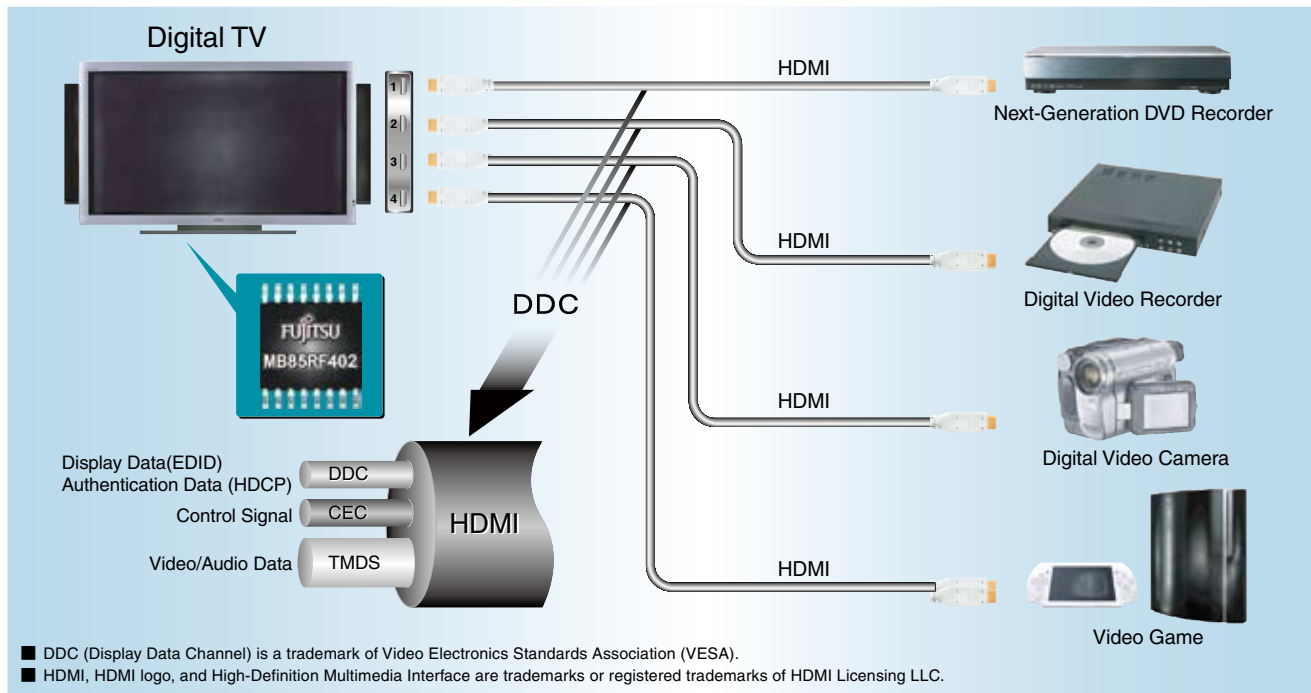
- Automatically identified, converted, and output of HDMI port specific information.

Adopted a specialized technology, is automatically searched for, identified, converted and output the difference data in each port.

Operation image

Due to the increase of source equipment including digital video players/recorders, next-generation DVDs, game machines, and digital video cameras equipped with the HDMI output, the number of HDMI ports on digital TVs and display units is increasing.

From now on, it is not necessary to increase the E²PROM even if the number of HDMI ports is increased.



Specifications

Memory capacity	2K bit (256Byte)
Write/read durability	10 ¹⁰ times (10 billion times)
Interface	100Kbps / 400Kbps supported by DDC 4-channel of and I ² C
Supply voltage	3.8V to 5.5V
Package	TSSOP-16, 4.96mm × 4.4mm (excluding pins)

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