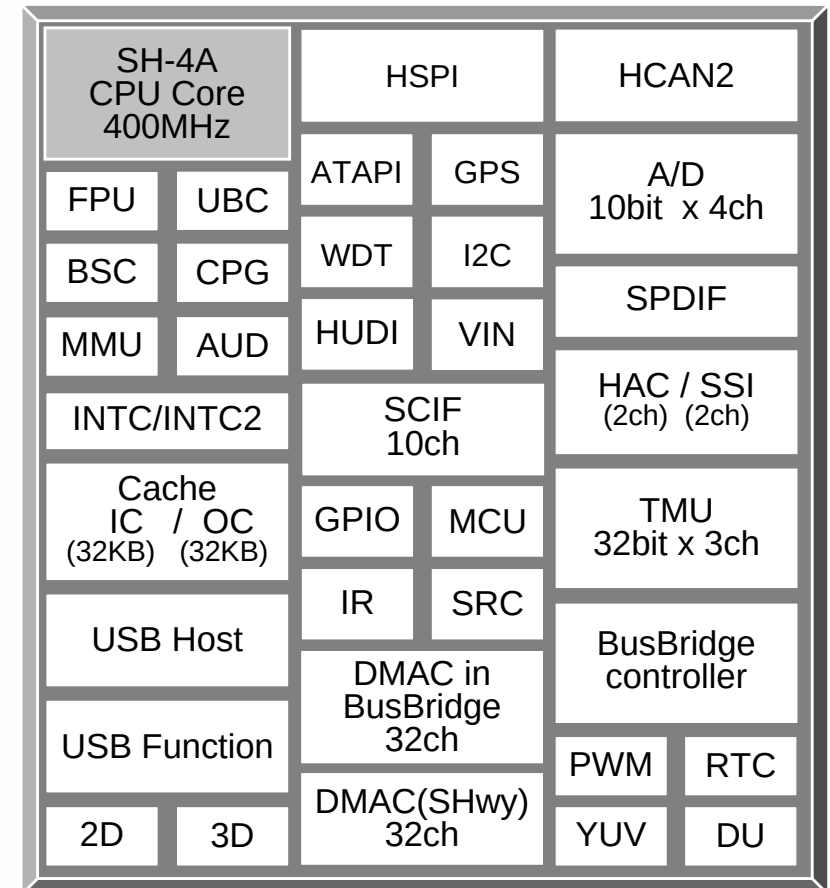


Outline of SH7770



Features

- **CPU** SH-4A Core (2-way Superscalar, 7-stage pipeline)
- **Operating Frequency** 400MHz
- **Performance** Integer : 720MIPS@400MHz
Floating point : 2.8GFLOPS@400MHz
- **Power Supply Voltage** 1.25V (for Core)
2.5V (for DDR-SDRAM I/F)
3.3V (for I/O)
- **Cache** IC : 32KB(instruction) + OC : 32KB(data)
- **Graphics/Video** DU(854 x 480 dot(16bit pixel))
2DG(253M pixel/s @100MHz)
3DG(3.1M polygon/s), VIN, YUV
- **GPS Base Band** GPS
- **Audio I/F** HAC, SSI(4ch), SPDIF
- **USB** USB host/USB function
- **CAN2.0B** HCAN2
- **ATAPI** ATAPI
- **Other I/F** I2C, HSPI(2ch), SCIF(10ch), IR, GPIO
- **Other Internal Peripheral Functions** RTC, PWM, TMU(32bit x 9ch)
ADC(10bit x 4ch(Max)), SRC
- **Operating Ambient Temperature** - 40 to 85 °C
- **Package** BGA520



Block Diagram

*Some pins of some modules are multiplied.

You can not use some functions at the same time.

Please check Hardware manual for details.

HCAN: Controller Area Network
I2C: Internal IC bus
SCIF: Serial Communication Interface
VIN: Video IN
RTC: Real Time Clock

HSPI: Serial Peripheral Interface
PWM: Pulse Width Modulation
UBC: User Break Controller
SSI: Serial Sound Interface
MCU: Memory Controller Unit

IR: Infrared
GPIO: General Purpose I/O
HAC: Audio Codec
TMU: TiMer Unit
DU: Display Unit

SPDIF: Sony Philips Digital Interface
SRC: Source Rate Converter
HUDI: User Debug Interface
CPG: Clock Pulse Generator

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