EPSON

S1R72V05

USB2.0 Host / device controller

● 0.18um CMOS process technology
● USB2.0 Host HS/FS/LS modes support
● USB2.0 Device HS/FS modes support

■ **Description**

The S1R72V05 is a USB Host/device controller LSI that supports the USB2.0-compliant High/Full speed modes. This device also includes IDE master controller for HDD.

■ **Features**
- **Host / Device Dual port**
  - ➢ Build in both Host/Device functions and realize the connection between equipments
- **High speed CPU I/F**
  - ➢ High-speed data transfer is possible between IDE device and system bus.
- **Low power consumption**
  - ➢ Low power is made possible by our 0.18um process technology and power management.
- **Smart Host Concept**
  - ➢ Suitable to host function expansion portable AV & stationary AV Equipments

■ **List of specification**
- **USB**
  - ➢ USB Host: Supports HS (480Mbps) / FS (12Mbps) / LS(1.5Mbps)
  - ➢ USB Device: Supports HS (480Mbps) / FS (12Mbps)
  - ➢ Built-in HS/FS termination
  - ➢ Built-in 4.5kB programmable FIFO for Channel/Endpoints
- **IDE**
  - ➢ Supports ATA/ATAP
    PIO mode 0 to 4, UDMA mode 0 to 5 , Multi word DMA
- **CPU I/F**
  - ➢ 16bit/8bit
  - ➢ DMA (2 ch)
- **Others**
  - ➢ Built-in Oscillator circuit and feedback resistance (fosc=12/24MHz crystal oscillator)
  - ➢ Dual supply voltages: 3.3Vtyp (3Vmin-3.3Vmax)
  - ➢   1.8Vtyp (1.65Vmin to 1.95V)
  - ➢ PFBGA-121pin (7mm x 7mm, 0.65mm pitch, full grid)
    QFP15-128 pin (14mm x 14mm 0.4mm pitch)
  - ➢ Operative temperature range –40℃ to 85℃

SEIKO EPSON CORPORATION