USB2.0 Host / device controller

● USB2.0 Host HS/FS/LS modes support
● USB2.0 Device HS/FS modes support
● Single Port for Host/device

■ Descriptions
The S1R72V17 is a USB Host/device controller LSI that supports the USB2.0-compliant High/Full speed modes. This product has single port for host/device.

■ Features
  • Host/Device Single Port
    ➢ Build in both Host/Device functions and realize the connection between Equipments. (*1)
  • Smart Host Concept
    ➢ Suitable to host function expansion portable AV & stationary AV.
  • Lower power consumption
    ➢ Low power is made possible by our 0.18um process technology and power management.

■ List of specification
  • USB
    ➢ USB Host : HS(480Mbps), FS(12Mbps), LS(1.5Mbps)
    ➢ USB Device : HS(480Mbps), FS(12Mbps)
    ➢ Built-in HS/FS termination
    ➢ Built-in Host termination
    ➢ Built-in FIFO for Channel/Endpoint
  • CPU I/F
    ➢ 16bit/8bit
    ➢ DMA 1 ch (Multi-word)
    ➢ I/F voltage : 3.3V or 1.8V
  • Others
    ➢ Built-in Oscillator circuit and feedback resistance (fosc=12/24MHz crystal oscillator)
    ➢ Supply voltage
      ➢ USB: 3.3V, Internal: 1.8V, CPU Bus: 3.3V or 1.8V
    ➢ Package (now consideration)
      ➢ BGA (5mm□ or 6mm□, 0.5mm pitch)
      ➢ QFP
    ➢ Operating temperature range: −40°C～85°C

(*1) Non-support for OTG.
Block diagram