

USB Solutions from Philips Semiconductors

USB Full-Speed

| FAMILY | PRODUCT | PRODUCT DESCRIPTION | TARGET APPLICATIONS | REFERENCE KITS | APPLICATION NOTES | PACKAGES | AVAILABILITY |
|-------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------|
| Transceiver | PDIUSBPI1A | General USB transceiver for system-on-chip applications | Companion analog front-end to digital ASICs | — | Interfacing P11A to a μ C | SO14, SSOP14, TSSOP14 | Now |
| | ISPI10x | Advanced USB transceiver for system-on-chip applications Low power, integrated 5V-to-3.3V voltage regulator 1.65V to 3.6V digital I/O I/F | Mobile phone, PDA, digital camera | ISPI105/6/7 Demo Board | ISPI10x, with example Interfacing to QUALCOMM MSM chipset | | |
| | ISPI105 | Allows differential or single-ended I/P mode | | | | HBCC16 | Now |
| | ISPI106 | Allows differential I/P mode only | | | | HBCC16, TSSOP16 | Now |
| | ISPI107 | Allows single-ended I/P mode only | | | | HBCC16, TSSOP16 | Now |
| Device | PDIUSB12 | High performance USB I/F device with 8-bit parallel bus 2 MB/s transfer rate, 6 endpoints, 320-byte FIFO | Digital camera, printer, STB, FDD, PDA, MP3 player, router, modem, USB dongle | D12 PC Eval Kit D12 Smart Eval Kit D12 USB-EPP Eval Kit D12 USB Mass Storage Eval Kit | Using PDIUSB12 in DMA Mode Interfacing D12 to Hitachi H8S/2357 USB MP3 Player Using PDIUSB12 | SO28, TSSOP28 | Now |
| | ISPI181x | High performance USB I/F device with 16-bit parallel bus 11.1 MB/s transfer rate, 16 endpoints Large 2462-byte FIFO for isochronous transfer | Digital camera, printer, router, modem, CD-RW drive, FDD, MP3 player, STB, PDA, USB dongle, etc. | ISPI18x PC Eval Kit ISPI18x Gen μ C Eval Kit ISPI181x USB to RS-232 Ref Kit | Interfacing ISPI181 to Hitachi SH7709 | TSSOP48, HVQFN48 (MLF48) | Now |
| Hub | ISPI122A | Stand-alone hub, configurable 2 to 5 downstream ports, I ² C-bus interface Built-in analog overcurrent detection | Hub box, monitor hub | ISPI122A Hub Demo Board | — | SDIP32, SO32, LQFP32 | Now |
| | ISPI123 | Same as ISPI122A but with Port 1 reserved for a function | Compound hub | ISPI123 Hub Demo Board | — | SO32, LQFP32 | Now |
| Host | ISPI160 | USB host controller | Digital camera Web appliance, Digital audio jukebox | Same as ISPI161x | Interfacing ISPI16x to ... ISPI160 embedded programming guide | Same as ISPI161x | Now |
| Host/Device | ISPI161x | Single-chip USB host/device controller Industry's first USB point-to-point feature | Digital camera, STB, PDA, mobile phone, Web appliance, Digital audio jukebox | ISPI16x ISA/WinCE Eval Kit ISPI16x ISA/Linux Eval Kit ISPI16x ISA/DOS Eval Kit ...and their ISPI16x PCI/xxx versions ISPI16x ISA/ μ TRON Eval Kit ISPI16x StrongARM/WinCE Eval Kit | Interfacing ISPI16x to ... Fujitsu SPARClite [®] Intel StrongARM [®] SA-1110 Hitachi SH7709 Motorola DragonBall [™] EZ RISC NEC V832 [®] ISPI161 embedded programming guide | LQFP64 (SOT414-1) LQFP64 (SOT314-2) | Now |

USB High-Speed

| FAMILY | PRODUCT | PRODUCT DESCRIPTION | TARGET APPLICATIONS | REFERENCE KITS | APPLICATION NOTES | PACKAGES | STATUS |
|-------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| Transceiver | ISPI501 | Companion analog front-end to digital ASICs 16-bit data bus I/F | Digital camera, printer, scanner, CD-RW drive, DVD drive, STB, PC motherboard, etc. | USB 2.0 Transceiver Eval Kit | PCB Guidelines | LQFP48 (SOT313-2) | Sampling |
| Device | ISPI581 | High performance interface device for high data throughput apps that have a continuous transfer rate of 33 megaword/s 16 configurable USB endpts | Conference camera, printer, scanner, STB, PDA, router, USB 2.0-to-Ethernet dongle, CD-RW drive, DVD drive, tape backup, etc. | USB 2.0 8051 Scanner Eval Kit USB 2.0 PC Eval Kit USB 2.0-to-ATAPI Bridge Eval Kit USB 2.0 (Hitachi SuperH) Eval Kit | I/F to 8051, an 8-Bit μ C I/F to 8051 XA, a 16-Bit μ P bus Using DMA Controller ISPI581 USB-to-ATAPI Bridge ISPI581 USB 2.0 Scanner ISPI581 Programming Guide Power-Up Considerations in ISPI581 Using the Odd Bit Indicator for DMA | LQFP64 (SOT314-2) | CQS |
| Hub | ISPI52x | Stand-alone single-chip pure hardware hub | Monitor, device bay, docking station, hub box | ISPI521 Hub Demo Board | ISPI521 Application Notes | | |
| | ISPI520 ISPI521 | 4 ports 4 to 7 ports | | | | LQFP64 LQFP80 | Sampling 2Q MP 3Q Sampling |
| Host | ISPI561 | PCI-based USB 2.0 host, 33 MHz interface | PC motherboard, notebook, PCI add-on card, STB, PDA, Web appliance | ISPI561 PCI Eval Kit | ISPI561 Application Notes | LQFP128 | Sampling MP May '02 |

USB On-The-Go

| FAMILY | PRODUCT | PRODUCT DESCRIPTION | TARGET APPLICATIONS | REFERENCE KITS | APPLICATION NOTES | PACKAGES | STATUS |
|-------------|---------|------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------|-----------------|
| Transceiver | ISPI301 | USB OTG transceiver | Digital camera, PDA, mobile phone, Web appliance, Digital audio jukebox, printer | — | — | HVQFN24 (MLF24) | Sampling 3Q '02 |
| Host | ISPI362 | USB OTG host/peripheral controller | Same as ISPI301 above | ISPI362 PCI/DOS Eval Kit (Apr) ISPI362 PCI/Linux Eval Kit (Apr) ISPI362 PCI/WinCE Eval Kit (May) ISPI362 PCI/VxWorks Eval Kit (June) ISPI362 PCI/ μ TRON Eval Kit (June) | ISPI362 embedded programming guide | LQFP64 (SOT314-2) TFBGA64 (SOT543) | Sampling |

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Document ordering number: 9397 750 09516

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