

AMAZON-SE

ADSL2/2+ Standard Entry Solution for
CPE Applications
PSB 50601



Amazon-SE is a next-generation ADSL2+ system-on-a-chip from Infineon. This highly integrated solution is part of the Infineon Amazon product family and consists of ADSL DFE/AFE/LD, USB 2.0, Ethernet PHY and packet acceleration (Protocol Process Engine) for a cost-optimized ADSL2/2+ modem or router designed as a two-layered PCB. Amazon-SE further integrates SD/MMCI and SPI connectivity for WLAN and/or memory peripherals

Infineon Amazon-SE targets the cost-sensitive broadband Customer Premises Equipment (CPE) market segment, in particular broadband equipment within residential and SOHO (Small Office/Home Office) environments. Amazon-SE comes with a complete development kit including reference designs, documentation, a complete board support package (BSP) based on the Linux® operating system, as well as the eCoS platform with a compact memory footprint.

Applications

- ADSL2/2+ one port Ethernet bridge-modem
- ADSL2/2+ Ethernet + USB dual-port router
- ADSL2/2+ SOHO 4-port Ethernet router with WLAN

ADSL Features

- ITU-T G.992.1/3/5 (ADSL2/2+) annexes A, B, I, J, M, and L
- ITU-T G.992.2 (G.lite) annex A and ANSI T1.413 Issue 2
- DTAG UR2 and ETSI standards for ADSL over ISDN
- DSL Forum performance specifications TR-048/67 and WT-100
- Integrated Dying Gasp comparator

Embedded System

- 32-bit MIPS 4KEc processor@133/266 MHz

Protocol Processing

- 32-bit Multithreading Protocol Processor
- Hardware acceleration for generic functions like CRC, various TC Layer support
- Programmable TC Layer for ATM, ATM header compression, EFM, ATM VCs, I.610 OAM F4/F5, ILMI, I.371 and TR-037
- Protocol acceleration FW for MPoA, NAT, ATM/EFM bonding and others for CPU off-load

Physical Interfaces

- ADSL2+ Analog Hybrid Interface
- One 10/100/200 MII/Reverse MII/TMII interface
- 16-bit SDR DRAM
- 16/8-bit NOR/NAND Flash memory interface
- Integrated 10/100 Base_T Ethernet Phy
- Multi Media Card Interface (SD/MMCI)
- USB 2.0 host/device
- SPI (Master/Slave)

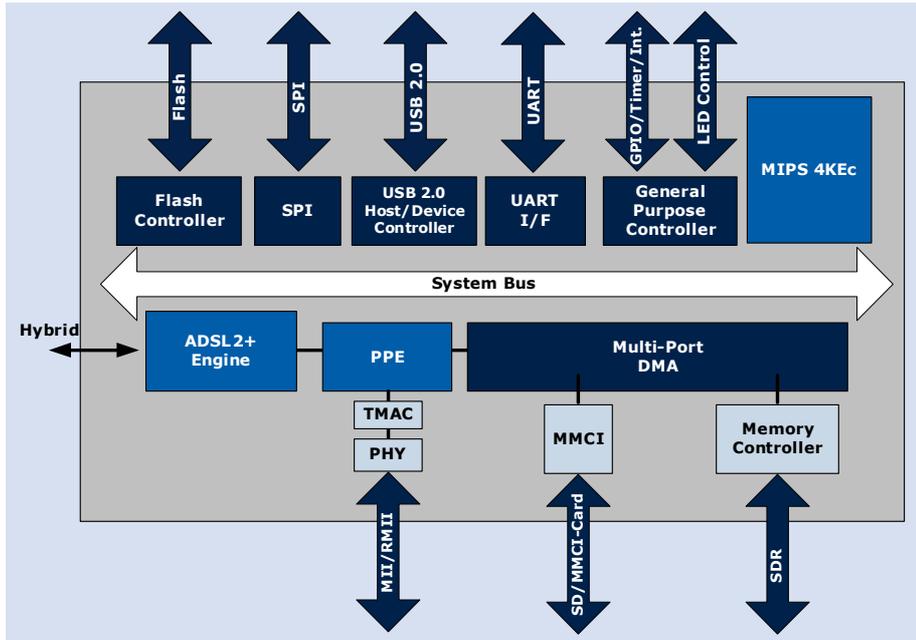
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Communication Solutions



Never stop thinking

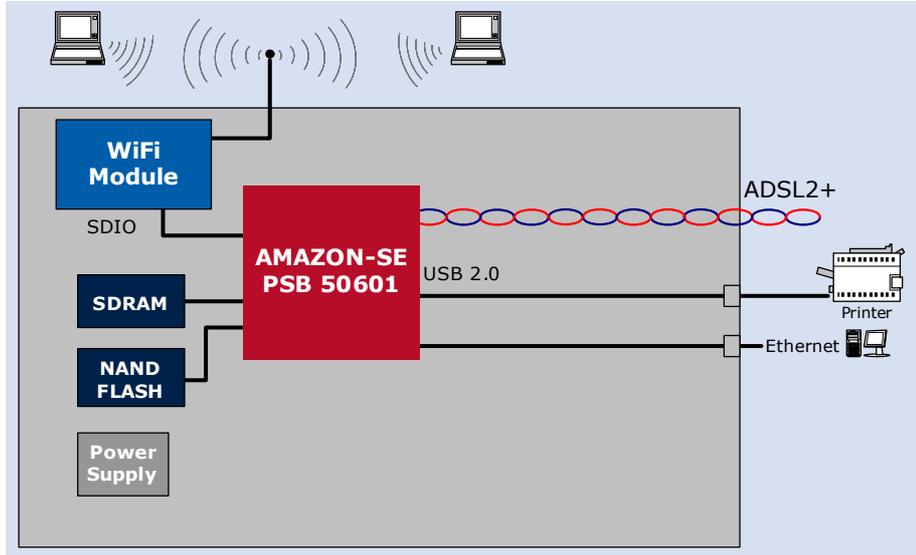
Block Diagram



Product Summary

Sales Code	Description	Package
PSB 50601	Single-Chip Solution for ADSL2/2+ Modem or Router	PG-LQFP-144

Application Example



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