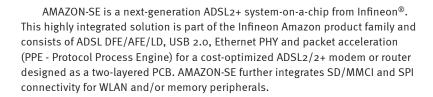
# **Product Brief**

## **AMAZON-SE**

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



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) 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@133/266MHz



### **Protocol Processing**

- 32-bit multithreading protocol processor
- HW 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
- Under Voltage Detection (UVD) with power on reset functionality saves external POR
- Real Time Clock (RTC), optionally with separate oscillator connection for low power mode

### **Physical Interfaces**

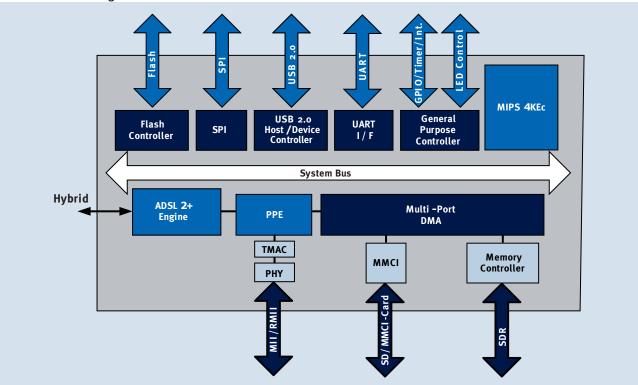
- ADSL2/2+ analog hybrid interface
- One 10/100/200 MII/Reverse MII/TMII interface
- 16-bit SDR DRAM
- 16/8-bit NOR/NAND flash
- Memory interface
- Integrated 10/100 BaseT Ethernet Phy
- Multi Media Card Interface (SD/MMCI)
- USB 2.0 host/device
- SPI (Master/Slave)

www.infineon.com/amazon

# Communication Solutions



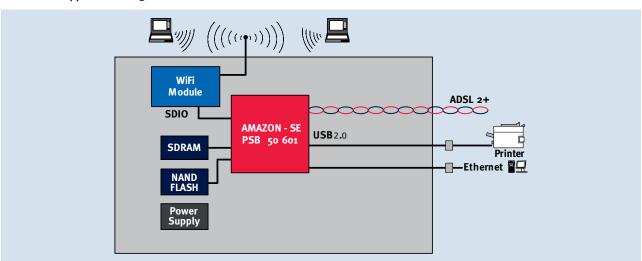
### **AMAZON-SE Block Diagram**



### **Product Summary**

Туре	Sales Code	Description	Package
AMAZON-SE	PSB 50601	Single-Chip Solution for ADSL2/2+ modem or router	PG-LQFP-144

### **AMAZON-SE Application Diagramm**



How to reach us:

http://www.infineon.com

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