

# More than a silicon provider Your Open HomePlug AV Solution Partner



## Features

- Ethernet to Powerline bridge
- Small 115 X 55 X 25 mm form factor
- Simple connect push button for easy network set-up
- 128-bit AES Link Encryption with easy plug&play key management
- Open Linux based architecture for complete end-product differentiation
- Manufacturing kit for easy production and quick time-to market
- Low-power "green" standby mode
- HomePlug AV compliant MAC & PHY
- Interoperable with IEEE 1901 standard

## SPR310-AV ETH/PLC Bridge Reference Design

Based on the SPC310 HomePlug AV SoC, the SPR310-AV reference design offers a cost optimised Ethernet to Powerline Communication bridging solution.

**High-Performance HomePlug AV whole-home entertainment** SPR310-AV embeds SPiDCOM SPC310 HomePlug AV SoC, the cost optimised packaging of the SPC300 "No limits" HomePlug AV SoC which received CES Show innovation award. SPC310 delivers up to 200 Mbps over difficult electrical powerlines, enabling multimedia (e.g. HD IPTV) streaming applications.

### "No-limits" product differentiation

SPC310 SoC embeds an ARM9. SPiDCOM provides partners with Linux source bundles and the complete tool chain to develop and customize added-value applications that will run directly on the SPC310 chip (e.g. TR-069 client). This way, no extra processor is needed on SPR310-AV, resulting in up to 30% BoM savings. In addition, the multimedia and general purpose interfaces of SPC310 SoC allow cost-effective solutions for HD/SD IPTV set-top boxes, home gateways, DVRs, media centre PCs, whole house audio and VoIP.

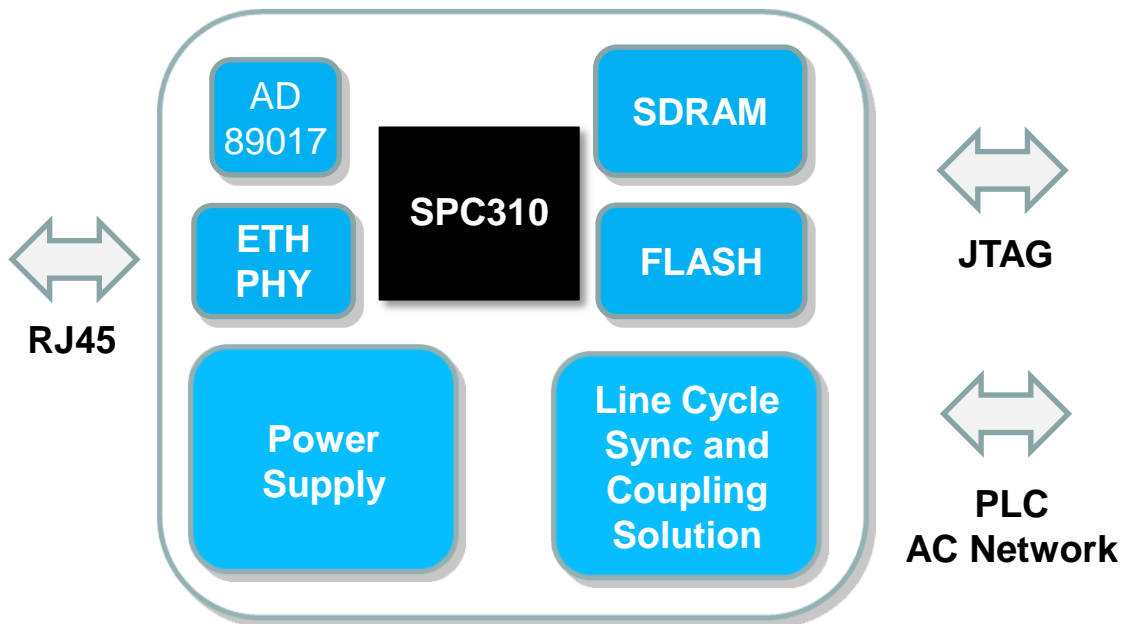
### Fast Time-to-Market

The SPR310-AV has a small 115 X 55 X 25 mm form factor, for discreet HomePlug AV powerline adapters. The Reference Design provides all the hardware, software and manufacturing documentation required to begin immediate production of a SPR310-AV bridge. SPiDCOM also provides dedicated customer support to assist the work of product designers.

### Management

Source code for implementations of LLTD responder, SNMP agent and TR69 agent is available. SPiDCOM also provides SPiDManager, a network management utility for monitoring and configuring the SPR310-AV.

## SPR310-AV Functional Diagram



### SPR310-AV

#### Package includes:

- Manufacturing kit
- BoM & Schematics
- Gerber Files
- Firmware
- Application Notes

### SPR310-AV

#### Applications include:

- HD & SD video streaming, Over-The-Top video
- Broadband Internet
- VoIP, Audio, Gaming

### About SPiDCOM Technologies

SPiDCOM Technologies is a fabless semiconductor company.

We provide open System-on-Chips and Linux based software bundles for “no-limits” developments offering complete OEM/ODM product differentiation (hardware, software, system).

Thanks to its unique mix of communication technologies, networking and system expertise, SPiDCOM Powerline Communication solutions can convert any wire into a broadband communications network.

Applications include HomePlug AV Home Networking, EoC (Ethernet over Coax), Access BPL, Smart Grid and Smart Energy.

*SPiDCOM, much more than a silicon provider, your “no-limits” solution partner.*

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