

# IS32CG5317

## Automotive HomePlug Green PHY Transceiver



IS32CG5317 is a HomePlug Green PHY low-power communications transceiver designed for application in automotive (EV) or charger (EVSE). It has SPI/MII/RMII host interfaces for connection to MCU or MPU.

### FEATURES

- Automotive Grade: AEC-Q100 Grade 2
- Operating ambient temperature of -40°C to 105°C
- ISO 15118 / DIN 70121 compliant
- HomePlug Green PHY compliant
- HomePlug AV and IEEE 1901 capable
- Low power
- EP-LQFP 80-pin package
- Single 25MHz crystal
- Single 3.3V power rail – internal DC/DC stepdown converters integrated
- Communication Frequency Band 2 to 30 MHz
- Integrated AFE, transmit power of 0dBm, ±1dB flatness accuracy and ability to add external line driver for additional boost

- Can operate over lines with AC or DC power
- Zero-crossing synchronization
- SPI Interfaces
  - 1 SPI Slave interface
  - 1 SPI Master interface
- Ethernet PHY interface
  - MII 10/100Mbps
  - RMII 100Mbps
- Boot from host or from external (optional) flash
- General Purpose I/Os
- JTAG
- UART
- Zero-cross synchronization

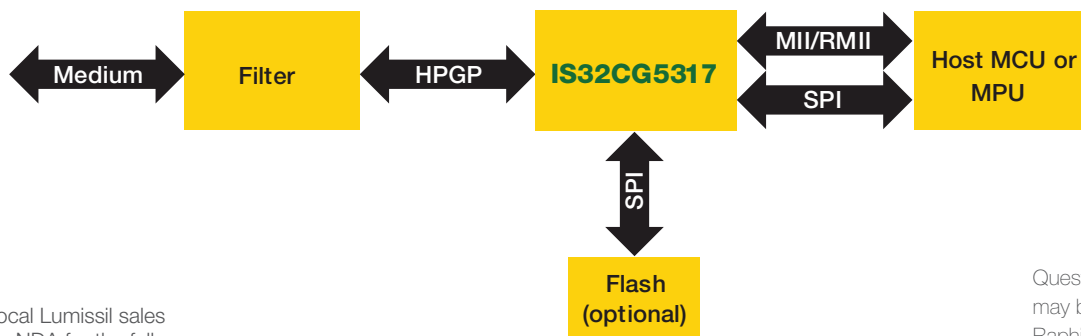
### APPLICATIONS

Automotive charge control module; suited for both in-vehicle (EV) and charger (EVSE)

### ORDERING INFORMATION

Part No.	Package
IS32CG5317-LQLA2	Tray
IS32CG5317-LQLA2-TR	Tape and Reel

### TYPICAL APPLICATIONS



Contact your local Lumissil sales office to get the NDA for the full datasheet

Questions or feedback may be sent to:  
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