



RD5500-ETH

Turbo Ethernet Wall Adapter Reference Design



Features

- First universal Ethernet to Powerline bridge based on Intellon's advanced INT55MX SIMPLE module providing up to 85Mbps data rate on the powerline
- Complete manufacturing kit for easy production and *fast* time-to-market
- Industry-leading IC integration and simplified product design significantly reduce bill of materials and assembly costs
- Simplifies development cycle, testing, FCC and UL approvals
- Compact wall wart form factor
- Works with both 120V and 240V AC environments
- HomePlug™ 1.0 compatible
- Uses a low cost Ethernet PHY with Auto-MDIX for ease of use
- Flash programming via host interface supports ease of manufacture and firmware upgradability
- Large bridge tables with advanced aging allows for virtually unlimited nodes
- Fully operational right out of the box with no drivers required: works with all versions of Windows and MAC OSs

Benefits

Intellon, the world leader in powerline networking technology, is now offering the RD5500-ETH Turbo Ethernet Wall Adapter Reference Design. This package offers manufacturers everything they need to move right to production with the industry's lowest cost high speed Ethernet to Powerline wall adapter.

The RD5500-ETH Reference Design offers a breakthrough Ethernet to Powerline wall adapter design. Using Intellon's turbo SIMPLE



Module INT55MX, the Reference Design reduces costs, simplifies manufacturing as well as FCC / UL approvals, and reduces time to market.

The Reference Design provides all the hardware, software and manufacturing collateral required to begin immediate production of the Turbo Ethernet to Powerline wall adapter. It includes a customizable, ready-to-ship installation CD with schematics, BOM, Gerber and PCB layout files. The CD also includes Security Configuration Utilities.

The RD5500-ETH is designed for use with Intellon's Production Test Station PTS5500CS to provide complete end-of-line GO/NO-GO testing and flash programming, all in less than 10 seconds.

The RD5500-ETH Reference Design is available for use in a wide range of settings, including residential (in-home), commercial (offices, apartments, hotels, warehouses), transportation and defense applications.

Just plug it in!

- Low power consumption
- Fully supported by the Intellon high speed Production Test System PTS5500CS
- Licensed to use Intellon PowerPacket™ and No New Wires® registered marks



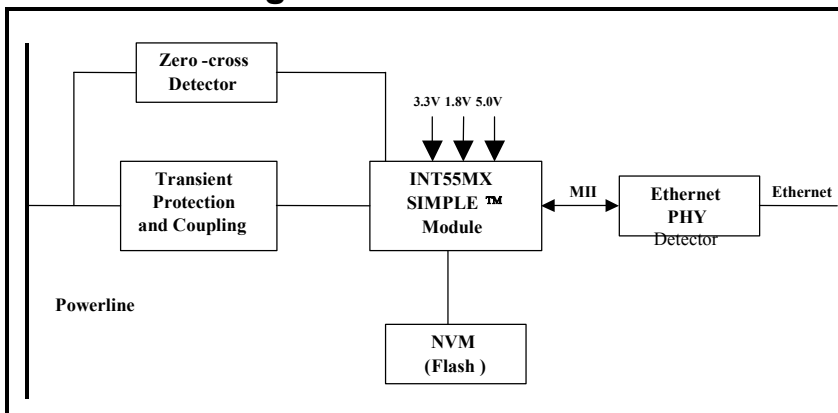
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Functional Diagram



No low level driver or other piece of software is required for a network of RD5500-ETH devices to work out of the box!

Applications

- Audio and Video distribution
- Wall powerline adapters such as Ethernet and Access Point
- Embedded applications with AC and DC cords such as Routers, Cable gateways, DSL Modems, MP3 players and Boom Boxes
- Shared broadband Internet access using standard in-home/SOHO powerlines
- PC file and application sharing
- Networked gaming
- Expanding the coverage of Wireless LAN

Intellon: The World Leader in Powerline Networking

- ✓ Patented technology chosen as the basis for HomePlug 1.0
- ✓ Complete HomePlug IC solution from a single supplier
- ✓ Only implementation proven in 500-home test
- ✓ Most real-world experience in Powerline networking

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