

# INT55MX

## Turbo SIMPLE™ Module

HomePlug® 1.0 with Turbo  
85 Mbps PHY

### Features

- Based on Intellon's Turbo INT5500CS chipset providing up to 85Mbps data rate on the powerline
- HomePlug 1.0 compatible
- Integrates all components necessary to add HomePlug functionality to any embedded system at industry's lowest cost
- Complete manufacturing kit for *easy* production and *fast* time-to-market
- Compact vertical or right-angle mounting design using Intellon's SIMPLE PowerBus connector
- Minimum footprint
- Simplifies development cycle, assembly, testing, and certification approvals
- Module can be self manufactured or sourced from Intellon's manufacturing partners
- Flash programming via host interface supports ease of manufacture and firmware upgradability
- Upgrade path to future High Speed HomePlug AV SIMPLE modules
- 40-pin low power consumption package



### Benefits

Intellon's INT55MX Turbo SIMPLE Module is the third-generation module of the SIMPLE (Single Inline Module – Power Line Enabled) family. As Intellon introduces new Baseband and AFE ICs, products incorporating Intellon SIMPLE module can be upgraded to future SIMPLE modules to provide improved performance, functionality and/ or reduced cost with minimum adaptation of existing product designs.

Based on Intellon's turbo chipset INT5500CS, the INT55MX SIMPLE module integrates most of the components required for HomePlug functionalities on a tiny single in-line package. This package can be easily connected into any existing embedded system via the proprietary SIMPLE PowerBus™ header, instantly adding HomePlug functionality with virtually no PCB space, and without the hassle of a system redesign.

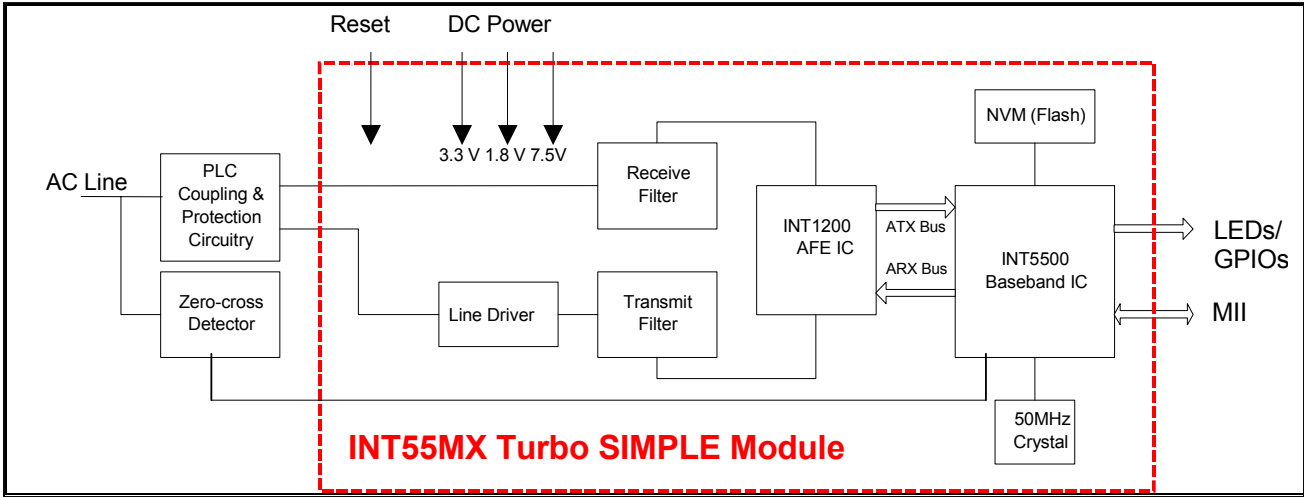
The INT55MX is designed to fit in either of the following:

- Systems with an embedded power supply and no external electrical cord (wall adapters).
- Systems with AC or DC cords, directly to the power outlet or an external AC/DC adapter.

Each module integrates Intellon's INT5500 baseband and INT1200 AFE ICs, the crystal, the NVM (flash), line drivers and required filter circuitry. The PLC coupler, transient protection, and the AC zero-cross detector are the only external components required on the AC side of the main power supply. Available host interfaces for the INT55MX module are MII PHY or MII Host/DTE.

The INT55MX module is truly the industry's most integrated and cost effective way of adding HomePlug functionality to any embedded networking or consumer electronics product.

**How can I get HomePlug into my product? SIMPLE, just plug it in!**



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# Intellon: The World Leader in Powerline Networking

- ✓ Leading contributor to HomePlug AV specification
- ✓ Patented technology chosen as the basis for HomePlug 1.0
- ✓ Complete HomePlug 1.0 and AV solutions from a single supplier
- ✓ World leader in HomePlug IC sales and product enablement
- ✓ Over 5 million power-line ICs shipped
- ✓ Most real-world experience in power-line networking

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