

HDK6400-ETH



Hardware Development Kit



HomePlug® AV
200Mbps PHY

HDK6400-ETH Contents

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Benefits

- Provides final-products as models
- Establishes performance targets
- Provides initial chips for early development

The HDK6400-ETH Hardware development kit enables the developer to evaluate final-product models as reference nodes to establish performance targets. It offers pre-production product and technology familiarity. The INT6400 MAC/PHY and INT1400 Line Driver ICs, included in the kit, support prototyping and product development.

The two adapters included in this kit are the RD6400-ETH HomePlug AV Ethernet Wall Adapter Reference Design. The production-ready reference design eliminates the high design costs and development time normally required to bring a product of this caliber to market. The adapter design is HomePlug AV compliant.



RD6400-ETH HomePlug AV Ethernet Wall Adapter Reference Design Specifications

Class	Subclass	Specification
Powerline Interface	Standards	HomePlug AV Compliant (200 Mbps PHY rate)
	Powerline Device	Intellon INT6400 MAC/PHY IC
Ethernet Interface	Standards	ISO/IEC 802-3 (ANSI/IEEE 802.3i) 10BASE-T Ethernet
		IEEE 802.3u, 100BASE-TX Fast Ethernet
	Ethernet PHY Device	IC+ IP101
	PHY Connection	10BASE-T or 100BASE-T Auto-detect, Auto MDIX
	Connector	RJ-45 connector for 10BASE-T or 100BASE-TX Ethernet interface
	LED Indicators	Connection
	Ethernet	1 – Link/Activity
	PLC	2 – Link/Activity, AV/1.0 DET
	Power	1 – Power
System Power	Source	All system power derived from the AC line
	Voltage	Universal: 85 – 265 VAC, 50/60 Hz
Agency Approvals	Safety	UL60950 and CE60950 for ITE Devices, CSA, TUV (note: UL1950 is superseded by UL60950-1)
	Emissions	-FCC Part 15 for Class B Digital and Carrier Current Devices -CE class A and class B.
	Hi-Pot	Per IEEE 802.3
	Surge	Ansi/IEEE C62.41 Category B Protection Level II
Package	Form Factor	Wall-plug adapter with direct AC connection and Ethernet RJ-45 connector.
	Construction	Low-cost/low parts count for volume manufacturing
Production Test Strategy	Test Platform	Intellon INT6X00 Production Test System

New-product developers are fully supported by the Intellon Field Applications Group and a complete documentation package. The RD6400-ETH reference design is complete with a detailed bill of materials, schematic, layout diagrams, Gerber files and even case specifications that make the entire product pre-designed, pre-sourced and production-ready. The HDK6400-ETH Hardware Development Kit supports the design effort with the two reference nodes and five of the world's most advanced HomePlug AV-compliant second-generation chipsets (INT6400 and INT1400). Driving this advanced technology is the Intellon HomePlug AV-compliant firmware – the most reliable and agile in the world, supporting multi-stream SD and HD video. The firmware is part of the Intellon AV Software Development Kit.



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