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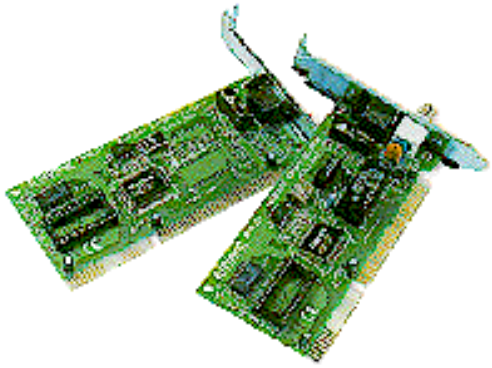
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EtheRx Plug and Play ISA Ethernet Adapters



The Kingston EtheRx PnP Ethernet adapter is fully compliant with current Plug and Play specifications for the easiest Windows 95 installation available. And QStart, Kingston's unique configuration and diagnostic program, offers a PnP disable feature which allows the adapter to be installed in Standard NE2000 mode, making the EtheRx PnP adapter the one Ethernet solution ideal for both PnP and non-PnP environments. EtheRx PnP adapters are available in both a 10BASE-T only and a dual interface 10BASE-T and 10BASE2 version.

Please choose from the following:

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Part Numbers and Description

Part Number	Description
KNE20T	Single Unit 10BASE-T Adapter
KNE20T/6	6-Pack 10BASE-T Adapters
KNE20T/20	20-Pack 10BASE-T Adapters

KNE20T/100	100-Pack 10BASE-T Adapters
KNE20BT	Single Unit 10ASE-T/2 Adapter
KNE20BT/6	6-Pack 10BASE-T/2 Adapters
KNE20BT/20	20-Pack 10BASE-T/2 Adapters
KNE20BT/100	100-Pack 10BASE-T/2 Adapters

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Standard Features

- ISA 16-bit Ethernet Adapter
- Compliant with IEEE 802.3 Standard
- Compliant with Plug and Play (PnP)standard version 1.0A
- PnP Enable/Disable Feature
- QStart™ GUI Auto Installation Program with mouse support
- Fully Novell NE2000 compatible
- On-board 16K RAM for Multi-Packet Buffering
- Full Duplex and Remote Boot ROM Support
- Diagnostic LEDs for Link and Polarity
- FCC Class B , CE Approved
- 100% Tested
- Life Time Warranty
- Toll Free Technical Support

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What is Plug and Play?

Historically, installing an adapter such as a sound card, modem, video card or network interface card in an IBM-compatible personal computer could be a time consuming and frustrating experience for the average computer user. Installing an adapter required the user to not only plug the adapter in, but also configure the adapter's Interrupt Request (IRQ) and Input/Output (IO) Address, making sure that the newly installed adapter was not in conflict with a previously installed adapter.

This complicated installation procedure contrasted with the adapter installation procedure for an Apple Macintosh system. Mac adapter installation requires the user to turn off the system, plug the adapter into an available expansion slot and turn the system back on. This easy installation procedure became known as "plug and play".

Apple has long promoted Macintosh's ease of use as a reason to buy their system over lower priced PCs based on Intel microprocessors and Microsoft-developed operating systems. In 1992, Intel and Microsoft joined forces to jointly develop an industry standard that would automatically allocate IRQ and I/O resources to adapters, making adapter installation in a PC as easy as adapter installation in a Mac. This would provide buyers with one less reason for buying a more expensive Mac. The Intel/Microsoft standard was called Plug and Play, commonly referred to as "PnP".

To make PnP work requires compliance on the part of the PC itself, the operating system and any adapter installed in the system. The critical part of the compliance equation became convincing the varied and competing manufacturers of PC adapters to support the new standard. If a noncompliant adapter was installed in a PnP system, the system would be unable to recognize its presence and potentially try to allocate resources already taken by an unrecognized adapter. In other words, PnP would be only as beneficial as the degree of vendor acceptance. Intel and Microsoft began an extensive campaign to convince adapter vendors to develop peripherals based on the Plug and Play standard.

This effort has been largely successful. The great majority of PCs shipped today have BIOSs that support PnP. Microsoft's Windows 95 Operating System supports PnP and free software supplied by Intel called ICU (Intel's Configuration Utility) adds PnP support to non-PnP compliant Operating Systems. PnP compliant adapters are available from most major vendors. Today, automatic adapter installation in PCs is simply a matter of selecting a PnP compliant PC, operating system and adapters.

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Why PnP Ethernet Adapters?

The easy installation inherent in Plug and Play is particularly useful for installing networking devices like Ethernet adapters. Since Ethernet adapters are connected to resources outside the PC itself, it follows that the installation of an Ethernet adapter is a two part process: configuring the adapter into the PC and configuring the adapter into the network.

When installing a Plug and Play networking adapter into a system using Windows 95 as the Network Operating System (NOS), both installation elements are handled dynamically. With Windows 95, which has built in Peer to Peer networking capabilities, the installer simply needs to plug the adapter into the PC and turn it on. The system then identifies the adapter, allocates appropriate system resources and loads the required network driver dynamically. When using Intel ICU software and a non-PnP compliant NOS (such as Novell Netware or Artisoft LANtastic), the installer must manually load the appropriate network driver.

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Why Kingston PnP Ethernet Adapters?

Like all Kingston networking products, each EtheRx PnP adapter is individually tested to ensure absolute product reliability. EtheRx PnP adapters carry a lifetime warranty. Although PnP adapters promise easy installation, if an installer does run into a problem, Kingston's free and comprehensive technical support is a telephone call away.

EtheRx PnP adapters provide installers with flexibility in two important ways: First, EtheRx PnP adapters are available in both a 10BASE-T only and a dual interface 10BASE-T and 10BASE2 version. The dual interface version then allows installers to integrate the system into Ethernet networks with either twisted pair or coaxial cable. Second, EtheRx PnP adapters have a PnP disable feature that allows the adapter to be configured as a standard NE2000. This allows installers to have one Ethernet adapter that is ideal for installation into Windows 95 networks and networks based on non-PnP compliant NOSes.

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Glossary of Terms

10Base-T - An implementation of the IEEE 802.3 Ethernet standard on 22 to 26 gauge unshielded twisted-pair wiring. 10Base-T compliant adapters require an RJ-45 media interface.

10Base2 - An implementation of the IEEE 802.3 Ethernet standard on RJ-45/Unshielded Twisted-Pair cabling. 10Base2 compliant adapters require a BNC

media interface.

IEEE - Institute of Electrical and Electronics Engineers. A professional organization that formulates and sets standards for computers and communications in the United States.

NE2000 - A device driver developed by Novell originally for adapter installation into Novell Netware networks. today, it has become a de facto standard for Ethernet adapters.

Plug-and-Play - (PnP) A specification developed by Intel and Microsoft that allows full auto-configuration of PC adapters.

PnP - A common abbreviation for Plug and Play

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Technical Specifications

Network Interface Standard:	IEEE 802.3
Plug and Play ISA:	1.0A compliance
Network Adapters:	
KNE20T	RJ-45/ Unshielded Twisted-Pair
KNE20BT	RJ-45/ Unshielded Twisted-Pair & BNC/Thin-Coaxial
Cable Type Supported:	
KNE20T	RJ-45/ Unshielded Twisted-Pair
KNE20BT	Unshielded Twisted-Pair (UTP) AWG 22,24,26 & RG-58/Thin-Coaxial
Operating Distance:	
KNE20T	328' (100 m) maximum hub to node length
KNE20BT	328' (100 m) for UTP, 607' (185 m) for Thin-Coaxial cable
Data Transfer/Bus Width/Bus Type:	

KNE20T, KNE20BT	I/O Port Mode(NE2000Plus compatible)/16 bit/ISA bus
Diagnostic LEDs:	Link, Activity Status
Buffer Memory:	16KBytes
IRQ Settings:	2(9), 3, 4, 5, 10, 11, 12, and 15
I/O Base Addresses:	200h, 220h, 240h, 260h, 280h, 2a0h, 2c0h, 2e0h, 300h, 320h, 340h, 360h, 380h
Boot ROM:	Optional
Boot ROM Address:	C8000h-DC000h
Software Compatibility:	Novell Netware v3.x, 4.x, Netware Lite, Personal Netware, Microsoft LAN Manager, Windows 95, Windows For Workgroups v3.11, Windows NT v3.1, 3.5, 3.51, 4.0 Windows For Workgroups v3.1, DEC Pathworks, Banyan VINES, Artisoft LANtastic v4.x, 5.x, 6.x, SCO UNIX, FTP PC/TCP
EMI:	FCC Class B, CE
Warranty:	Lifetime

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Drivers for EtheRx Network Adapters

The drivers for the KNE-20T and KNE-20BT are located in the EtheRx Download Area.

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