

PORTABLE DHCP SERVER

PRODUCT OVERVIEW

Every TCP/IP device requires a unique address to identify it on a network. These addresses are assigned by an Internet authority to assure their uniqueness.

The Dynamic Host Configuration Protocol (DHCP) Server was introduced as a method to easily assign IP addresses without user intervention. DHCP allows the end device to dynamically get a unique IP address every time it is started.

This protocol also obviates the need to assign a permanent address to each device, and makes configuring embedded devices much easier for the end user.

Extensions

DHCP can also be used in conjunction with another protocol called Network Address Translation (NAT). Using a NAT router, entire sub-networks can be created without regard to identifying and assigning unique IP address to each device.

InterNiche's Portable DHCP Server is a complete drop-in software module for developers of embedded systems. DHCP Server capability enables an embedded system to assign temporary or permanent IP addresses to clients.

It is compatible with Microsoft® Windows 95/98/00/NT and is backward compatible with BOOTP clients. The DHCP Server supports a database on disk or in flash.

The DHCP Server is the standards-based way to assign IP addresses to probes or slave devices that do not need permanent IP addresses.

The Server can also assign private IP addresses for Local Area Network devices that are connected to a NAT Router (see NATRouter data sheet for an explanation) to gain access to the Internet.

PRODUCT FEATURES

- Compatible with Windows 95/98/00 and NT
- Backward compatible with BOOTP
- Supports two methods of database storage
- Includes code to read standard bootptab file

RFC Compliance

- RFC0951 -Bootstrap Protocol
- RFC1541 -Dynamic Host Configuration Protocol
- RFC2132 -DHCP Options and BOOTP Vendor Extensions

Memory

Static code size for DHCP server is 13 KB on an Intel x86 processor when compiled with Microsoft C. Features can be turned off to reduce memory requirement.

SERVICE AND SUPPORT

All InterNiche products include 12 months of comprehensive support services, which include email, WWW, FAX, and telephone service.

InterNiche Technologies Corporate Headquarters
1340 S De Anza Blvd • Suite 102
San Jose • CA • 95129
Phone: 408.257.8014 • Fax: 408.257.5692

InterNiche Technologies Europe
Raadhuisstraat 51A
2271DG Voorburg • Netherlands
Phone: +31 70 300 0402 • Fax: +31 70 300 0626

www.iniche.com • email: sales@iniche.com