nVIP2400

microhard SYSTEMS INC.

Miniature 2.4 GHz OFDM Broadband Ethernet / Serial Gateway

The nVIP2400 is a miniature ruggedized high power broadband Ethernet & Serial Gateway. Available in both OEM and Enclosed models, the nVIP2400 provides a robust solution for size and weight sensitive applications. The nVIP2400 provides an Ethernet port, 802.11b/g, as well as dual serial communication ports that support any RS232/RS485/RS422 device!
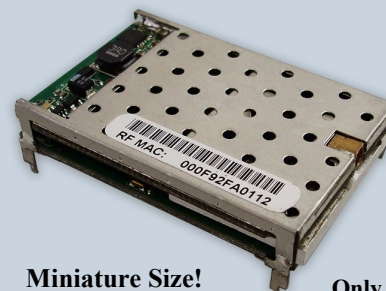
- Up to 54 Mbps
- 802.11b/g
- Enhanced Firewall
- Extended Temperature
- Small Size
- RS232/485/422 Port

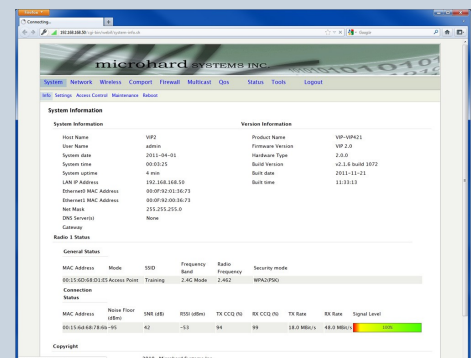**Enclosed Model**

OEM Model

Miniature Size!
1.25"x2.0"x0.50"

Only 30 grams!

Features

- *Up to 54 Mbps data rate*
- *Support for 802.11b/g Devices*
- *Firewall with ACL Security, Port Forwarding*
- *Access Point, Repeater, and Client/Station, MESH modes*
- *Serial Gateway (RS232/RS485/RS422)*
- *Comprehensive VLAN, QoS & Spanning Tree Support*
- *RSSI LEDs for Antenna Alignment*
- *Wide operating temperature (-40°C to +85°C)*
- *Administration via local console, telnet, web browser, SNMP*
- *Local and remote wireless firmware upgradable*

Powerful User Interface

◆ **M E S H** ◆ **S e r i a l / R S 4 8 5** ◆ **W i F i** ◆ **E t h e r n e t** ◆ **F i r e w a l l**

nVIP2400

Specifications

Frequency	2.4000 - 2.4835 GHz
Radio Operation	IEEE 802.11 b/g
Link Rate	Up to 54Mbps
Error Detection	ARQ
Encryption	WEP,WPA, WPA2 MAC Authentication, RADIUS Server, MAC Blocking
Range	Up to 10 miles (16 km) (Antenna Dependant)
Sensitivity	-97dBm @ 6Mbps -74dBm @ 54Mbps
Output Power	Up to 30dBm (1W)
Ports Serial Data Serial Console LAN Ethernet USB	RS232/RS485/RS422 300bps to 921kbps RS232: RxD, TxD 10/100BaseT IEEE802.3 Not currently supported
Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP, QoS, VoIP
Operating Modes	Access Point, Station/Client, Repeater, Mesh
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, RADIUS authentication, TFTP, CLI (Command Line Interface)
Diagnostics	Remote Diagnostics, Monitor Utilities (Ping, ARP table, Bridge Table, DHCP active leases, CCQ), Link Test
Rejection	Excellent strong signal interference & rejection characteristics
Input Voltage	Enclosed: 9-30VDC OEM: 3.3VDC Nominal (+/-0.3V)

Network Advanced Protocols	IP Routing - static Routing, IP/RIPv1, IP/RIPv2, CIDR, ICMP, ARP NAT and Port Forwarding (Routing mode only) DHCP Server, Relay, and Client / DHCP Server Reservation Full 802.1Q VLAN Support Proprietary Long Distance Algorithm for ACK and CTS timeout adjustment support Firewall and Packet/URL Filtering (Routing mode only) Multicast Routing support
Connectors: Enclosed Antenna Data Ethernet Console OEM Antenna Data	 RP-TNC Female Bulkhead RS232 DB-9F RJ-45 RS-232 DB-9F MMCX 60 Pin OEM Header x2
Environmental	-40°F to 185°F (-40°C to +85°C) 5-95% humidity, non-condensing
Weight Enclosed OEM	 Approx. 250g Approx 30g
Dimensions Enclosed OEM	 Approx. 2.25" x 3.85" x 1.70" (57mm x 98mm x 43mm) Approx. 1.25" x 2.0" x 0.50" (32mm x 51mm x 13mm)
Approvals	FCC Part 15.247 IC RSS210

Order Options

-C1D2	Class 1 Div 2 (for use in hazardous environments)

Authorized Distributor:
ControlSystemsUsa.com
Houston, TX USA
832-615-3588
sales@ControlSystemsUsa.com

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