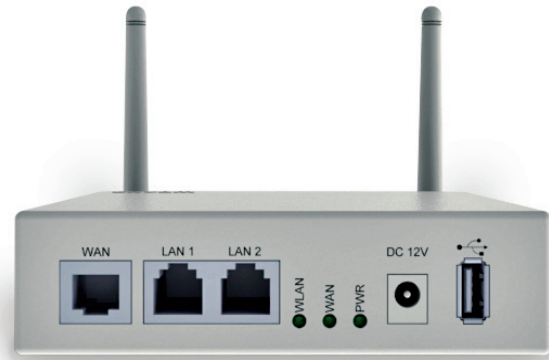


## HG400 Home Gateway (Copper/3G Backhaul)



**Home Gateway**



**Indoor Access Point**

### HIGH CAPACITY WIRELESS 11n HOME ROUTER

Shyam's Home Gateway is a cost-effective IP Sharing Router that enables multiple users to share internet access through IEEE802.11n-compliant wireless technology capable of up to 300 Mbps data rate. Users can share files, printers, or play network games all at a high speed through 4 LAN ports. The Home Gateway is a high performance gateway that combines a Router and Wireless Access Point in a single device providing networking solution for both the home and small office. It can be used as an Access Point for the end customer through a 3G data card used for the uplink.

### FEATURES

- Setup wizard guides the user through step-by-step configuration.
- Flexible port configurations handle Wi-Fi, Internet and many more services in one small box.
- Displays real-time information for system settings and statistics.
- Web-based configuration and management interface.
- User name and password authentication for web server login and logout.
- Configuration backup/restore to and from a file. Reset configuration to factory default.
- Auto-provisioning and firmware updates through the web.
- Push button reboots system or reloads settings to factory default.
- Remote management through SNMP V1, V2C, and V3.

### HIGHLIGHTS

- Router Functionality
- Simplified Installation
- Home Application/SOHO
- 3G Data Card Supported for Uplink

S. NO.	MODEL NO.	PRODUCT DESCRIPTION
1.	HG22-2C-1C-UP	22dBm, Wi-Fi (802.11n) Access Point, 2.4GHz, External Whip Antenna, PoE In, 1USB, 2 Copper
2.	HG17-4C-1C-U	17dBm, Wi-Fi (802.11n) Access Point, 2.4GHz, External Whip Antenna, 1USB, 4 Copper

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### HARDWARE FEATURES

<b>Copper</b>	<ul style="list-style-type: none"> <li>▪ Optional 10/100 Base-TX</li> <li>▪ Complies with IEEE802.3x</li> <li>▪ Standard Cat5 RJ45 Connector</li> <li>▪ Maximum Length of 100 m</li> </ul>
<b>LAN Interface</b>	<ul style="list-style-type: none"> <li>▪ HG22-2C-1C-UP : 2 10/100 Base-TX</li> <li>▪ HG17-4C-1C-U: 4 10/100 Base-TX</li> <li>▪ Complies with IEEE802.3x</li> <li>▪ Standard Cat5 RJ45 Connectors</li> <li>▪ Maximum Length of 100 m</li> </ul>
<b>Wireless Interface</b>	<ul style="list-style-type: none"> <li>▪ 2T/2R Compliance to IEEE802.11 b/g/n draft 2.0.</li> <li>▪ Data rate up to 11 Mbps/54 Mbps/150 Mbps for b/g/n Standards Respectively</li> <li>▪ Supports 20 MHz and 40 MHz Channel Bandwidth</li> <li>▪ 144.4 Mbps TX and RX Data Rate Using 20 MHz Bandwidth</li> <li>▪ 300 Mbps TX and RX Data Rate using 40 MHz Bandwidth</li> <li>▪ Short Guard Interval of 400 ns</li> <li>▪ DSSS with DBPSK and DQPSK, CCK Modulation with Long and Short Preamble</li> <li>▪ OFDM with BPSK, QPSK, 16QAM, 64QAM Modulations</li> </ul>
<b>Tx Power</b>	<ul style="list-style-type: none"> <li>▪ HG17-4C-1C-U: Up to 17 dBm</li> <li>▪ HG22-2C-1C-UP: Up to 22 dBm</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>▪ 12V DC Powered</li> <li>▪ Power: 12 Watts (Maximum)</li> <li>▪ 24 - 48V PoE (Only for HG22-2C-1C-UP)</li> </ul>

### ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

<b>Operating Temperature</b>	0° to 65° C (32° to 149° F)
<b>Storage Temperature</b>	-40° to 70° C (40° to 158° F)
<b>Operating Humidity</b>	10% to 90% (Non-Condensing)
<b>Storage Humidity</b>	10% to 90% (Non-Condensing)
<b>Dimension (H x W x D)</b>	HG22-2C-1C-UP : 33 x 125 x 113 mm HG17-4C-1C-U: 33 x 175 x 113 mm
<b>Weight</b>	0.300 Kg

### SOFTWARE FEATURES

<b>Internet Access</b>	<ul style="list-style-type: none"> <li>▪ Static IP</li> <li>▪ DHCP Client</li> <li>▪ PPPoE</li> <li>▪ Authentication by PAP/CHAP</li> <li>▪ Connection on Demand</li> <li>▪ Auto-Disconnect when No Traffic</li> <li>▪ Connect Continuously or Manually</li> </ul>
<b>PPTP Client</b>	<ul style="list-style-type: none"> <li>▪ Authentication by PAP/CHAP and MPPE</li> <li>▪ Connect Continuously</li> </ul>
<b>Networking Protocol</b>	<ul style="list-style-type: none"> <li>▪ TCP/UDP/ICMP/ARP Protocol Stack</li> <li>▪ DHCP Server</li> <li>▪ Web Server – HTTP and HTTPS</li> <li>▪ DNS Relay</li> <li>▪ DDNS and NTP Client</li> <li>▪ System Log</li> <li>▪ uPNP IGD</li> <li>▪ Bridging Mode Support</li> <li>▪ RTP/RTCP</li> <li>▪ SRTP/SDES</li> <li>▪ IGMP Proxy – V1, V2, and V3</li> <li>▪ IGMP Snooping – V1, and V2</li> </ul>
<b>NAT &amp; Firewall</b>	<ul style="list-style-type: none"> <li>▪ NAT/NAPT</li> <li>▪ Supports up to 1,024 Concurrent Connections</li> <li>▪ ALG for Following Applications: FTP, NetMeeting, VPN Passthrough with Multiple Sessions (IPSEC, L2TP, PPTP)</li> <li>▪ Virtual Server</li> <li>▪ Virtual DMZ</li> <li>▪ Packet Filtering by IP Address, Port Number, Protocol Type, and MAC Address</li> <li>▪ Port Forwarding. Allows Custom Port Range for 20 Entries</li> <li>▪ URL Filtering and DoS (Denial of Service)</li> </ul>
<b>VLAN &amp; QOS</b>	<ul style="list-style-type: none"> <li>▪ VLAN Tag Insert and Removal</li> <li>▪ Packets can Be Inserted VLAN Tags with Different VID by: <ul style="list-style-type: none"> <li>▪ Different Physical Ports</li> </ul> </li> <li>▪ Six Level Priority Queues with Strict Priority/WFQ Features and Multiple Ways to Classify Packets into Different Queues by: <ul style="list-style-type: none"> <li>▪ Port-Based</li> <li>▪ 802.1p Tag-Based</li> <li>▪ DSCP-Based</li> </ul> </li> <li>▪ Supports Port Based Ingress/Egress Bandwidth Control by 16/64 kbps Scale Resolution</li> <li>▪ Supports Weighted Fair Queue Based Egress Bandwidth Control by 64 Kbps Scale Resolution</li> </ul>

## HG400 - Home Gateway (Copper/3G Backhaul)

### MINIMUM REQUIREMENTS

- PC with 200 MHz or Faster Processor
- 128 MB RAM Recommended
- Ethernet or Gigabit Network Adapter
- Cat5e Ethernet Network Cable

### PACKAGE CONTENTS

- Operational Manual
- Power Supply Adapter with Cord
- Console Cable

### CERTIFICATIONS

- CISPR 22, Class A
- CISPR 24, Class A
- EN61000-3-2, EN61000-3-3
- IEC 60950, CB Report and Certificate
- UL 60950
- EN 60950
- UL-94-V1 Flammability Requirements for PC Board
- NOM-019



### SOFTWARE FEATURES

#### WLAN

- 802.11 b/g/n Access Point, Wi-Fi Compliant
- 802.1x, WEP, WPA TKIP and WPA2 AES/Mixed Mode for PSK and TLS (Radius)
- Wireless Auto-Channel Selection
- IAPP Supported
- 802.11 b/g/n Client Mode
- Supports Ad-Hoc and Infrastructure Mode with Roaming Capability
- Supports Wireless Security for WEP, WPA TKIP & WPA2 AES
- Support MAC Clone (Single Ether Device) and NAT2.5 (Multiple Ether Clients)
- Supports Site Survey Scan and Manual Connect
- Supports WPA/WPA2 PSK Client
- Wireless Access Control by MAC Address (Deny or Accept)
- Supports Multiple SSIDs

#### NAT Traversal

- STUN (RFC3489)
- Outbound Proxy

## ABOUT SHYAM NETWORKS LIMITED

Shyam Networks provides state-of-the-art networking and security solutions for diverse corporate enterprises, governments, educational institutions, offices and residences. From high end enterprise network solutions and wireless broadband connectivity to simple broadband access for homes, we ensure speed, capacity and range for both outdoor and indoor applications. We understand your networking needs as they evolve in a dynamic environment and manage them with cost effective, innovative answers.

Shyam Networks offers end-to-end solutions for homeland security, industrial security, and mission critical, sensitive sectors. We also offer a range of products that bring you an enhanced internet experience, in dense urban locations or remote rural areas where power and infrastructure are unreliable. Shyam Networks has networking solutions to connect subscribers in even the most challenging environments.

## CONTACT US

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