

Specification of G801

V1.3

Revision Record

Version	Date	Author	Contents
V1.2	2011-4-2	Anne	
V1.3	2011-6-10	Anne	

802.11n 300M AP Router with VoIP and HNAT (G801)

The Intelligent Communication Device for Next Generation Network

Specification

VoIP SoC	<ul style="list-style-type: none"> ■ CPU Core: MIPS24KEc(400MHz)
Flash	<ul style="list-style-type: none"> ■ 8MBytes Flash
RAM	<ul style="list-style-type: none"> ■ 32MBytes DDR2
Power Supply	<ul style="list-style-type: none"> ■ AC/DC Adapter ◇ AC Input: 100~240V, 50~60Hz ◇ DC Output: 5V, 2A
I/O Interfaces	<ul style="list-style-type: none"> ■ 1 RJ-45 for WAN port (Ethernet 10/100 Base-T) ■ 4 RJ-45 for LAN port (Ethernet 10/100 Base-T) ■ 1 RJ-11 for FXS port ■ Two 5dB Antenna for IEEE802.11n 2T2R Wireless
Environmental	<ul style="list-style-type: none"> ■ Operation Temperature: 0~45 Degree C ■ Storage Temperature: -25~ 85 Degree C ■ Relative Humidity: 10%~90% No Condensing ■ Shock: Up to 75cm (30 inches)
Key Feature	<ul style="list-style-type: none"> ■ Hardware NAT(HNAT) engine with 100Mbps NAT/NAPT speed ■ Wireless throughput is above 80Mbps in average ■ Support VoIP FXS port with SIP and T.38 FAX
Audio Codec	<ul style="list-style-type: none"> ■ G.711 (A-Law, u-Law) with PAMS above 4.3 ■ G.729 with PAMS above 4.0 ■ Adaptive Jitter Buffer Management ■ Voice Activity Detection ■ Comfort Noise Generation ■ Echo Cancellation ■ T.30 FAX with G.711 ■ Real time FAX over IP via T.38
Protocols	<ul style="list-style-type: none"> ■ SIP V2 (RFC 3261, 3262, 3263, 3264) ■ Backward compatible with RFC2543 ■ Session timer (RFC4028) ■ SDP (RFC2327) ■ RTP/RTCP (RFC823/903) ■ NAPTR for SIP URI lookup (RFC2915) ■ STUN (RFC2030) ■ ARP/RARP (RFC 826/903) ■ SNTP (RFC 2030) ■ DHCP/PPPoE ■ HTTP Server for Web Management ■ TFTP/HTTP for Auto Provisioning ■ Message Waiting Indicator (RFC3842) ■ DHCP Option Codes for SIP (RFC3361) ■ DNS/DNS SRV (RFC1706 and RFC 2782) ■ IEEE802.1Q VLAN/802.1p and IP DSCP
Wireless	<ul style="list-style-type: none"> ■ 802.11 b/g/n support ■ 4 SSID ■ Static WEP(64/128bit) ■ Dynamic WEP(64/128bit) ■ AES(CCMP/TKIP) ■ MAC certification ■ WEP certification ■ WPA-PAK/WPA-PSK(2.0) ■ WPA/WPA2 ■ AP Isolation and MBSSID AP Isolation ■ WMM ■ WDS ■ WPS ■ Station list ■ Radius certification and billing ■ MAC Filter(different from wired MAC Filter)



Applications	<ul style="list-style-type: none"> ■ Support NAT mode and Bridge mode ■ Support DDNS ■ MAC address cloning ■ SIP proxy redundancy ■ NAT Traversal by STUN ■ Built-in Wired speed NAT Router ■ DHCP Server and Client ■ IP conflict detection ■ VLAN ■ Flow Control ■ VPN Pass through (PPTP,L2TP and IPSec) ■ Port forwarding and DMZ host ■ Rate Limit per port ■ Broadcast Storm Control ■ Classification by physical port, IP port, 802.1p,DSCP and TCP/UDP port ■ Marking by 802.1p and DSCP ■ MAC filter per port ■ Packer filter for port, IP address, protocol and physical port ■ Firewall defend attack and UDP flooding
Management	<ul style="list-style-type: none"> ■ Firmware Upgrade ■ Web Management Interface ■ IVR-driven Management Interface ■ Local and Remote Syslog (RFC3164) ■ Auto Provisioning ■ SNTP Time Synchronization ■ Multi User Level ■ SNMP v2 ■ Telnet ■ TR069 ■ System Log: local log and remote log
Call Features	<ul style="list-style-type: none"> ■ 3-way conference ■ Call hold ■ Call forwarding ■ Call Transfer ■ Call waiting ■ Caller ID and CWCID ■ DTMF Relay: In-band, Out-band and SIP INFO ■ QoS Layer 3 ■ Call Log ■ CID/CWCID ■ Dial Plan ■ DTMF Mode: Inband, outband and SIP Info
Dimension	<ul style="list-style-type: none"> ■ (L) 180 x (W) 110 x (H) 30 mm
Unit Weight	<ul style="list-style-type: none"> ■ 338 g (without package)