

# *Specification of G501/G501C*

## *V1.5*

### **Revision Record**

<b>Version</b>	<b>Date</b>	<b>Author</b>	<b>Content</b>
V1.3	2011-3-24	Anne	
V1.4	2011-3-25	Anne	◇ Adding TR069 to Management ◇ Revising the dial rule to dial plan
V1.5	2011-4-2	Anne	◇

# VoIP TA with Wire-Speed NAT Router (G501/G501C)

The Intelligent Communication Device for Next Generation Network

## Specification

<b>VoIP SoC</b>	<ul style="list-style-type: none"> <li>■ 32-bit RISC CPU + Hardware NAT Engine</li> </ul>
<b>Flash</b>	<ul style="list-style-type: none"> <li>■ 4MBytes Flash</li> </ul>
<b>RAM</b>	<ul style="list-style-type: none"> <li>■ 16MBytes SDRAM</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>■ AC/DC Adapter</li> <li>◇ AC Input: 100~240V, 50~60Hz</li> <li>◇ DC Output: 5V, 2A</li> </ul>
<b>I/O Interfaces</b>	<ul style="list-style-type: none"> <li>■ 1 RJ-45 (Ethernet 10/100 Base-T)</li> <li>■ 1 RJ11 for FXS Port</li> <li>■ 1 RJ11 for PSTN Port (PSTN life line, G501C only)</li> </ul>
<b>Key Feature</b>	<ul style="list-style-type: none"> <li>■ Wire-speed NAT/NAPT route function</li> </ul>
<b>Environmental</b>	<ul style="list-style-type: none"> <li>■ Operation Temperature: 0~50 Degree C</li> <li>■ Storage Temperature: -25~ 85 Degree C</li> <li>■ Relative Humidity: 10%~90% No Condensing</li> <li>■ Shock: Up to 75cm ( 30 inches)</li> </ul>
<b>Audio Codec</b>	<ul style="list-style-type: none"> <li>■ G.711 (A-Law, u-Law) with PAMS above 4.3</li> <li>■ G.729A/AB with PAMS above 4.0</li> <li>■ Adaptive Jitter Buffer Management</li> <li>■ Voice Activity Detection</li> <li>■ Comfort Noise Generation</li> <li>■ Echo Cancellation</li> <li>■ T.30 FAX with G.711</li> <li>■ Real time FAX over IP via T.38</li> </ul>
<b>Protocols</b>	<ul style="list-style-type: none"> <li>■ SIP V2 (RFC 3261, 3262, 3263, 3264)</li> <li>■ Backward compatible with RFC2543</li> <li>■ Session timer (RFC4028)</li> <li>■ SDP (RFC2327)</li> <li>■ RTP/RTCP (RFC823/903)</li> <li>■ NAPTR for SIP URI lookup (RFC2915)</li> <li>■ STUN (RFC2030)</li> <li>■ ARP/RARP (RFC 826/903)</li> <li>■ SNTP (RFC 2030)</li> <li>■ DHCP/PPPoE</li> <li>■ HTTP Server for Web Management</li> <li>■ TFTP/HTTP for Auto Provisioning</li> <li>■ Message Waiting Indicator (RFC3842)</li> <li>■ DHCP Option Codes for SIP (RFC3361)</li> <li>■ DNS/DNS SRV (RFC1706 and RFC 2782)</li> <li>■ IEEE802.1Q VLAN/802.1p and IP DSCP</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>■ Firmware Upgradeable</li> <li>■ Web Management Interface</li> <li>■ IVR-driven Management Interface</li> <li>■ Local and Remote Syslog (RFC3164)</li> <li>■ Auto Provisioning</li> <li>■ SNTP Time Synchronization</li> <li>■ Multi User Level</li> <li>■ SNMP v2</li> <li>■ TR069</li> </ul>



<b>Applications</b>	<ul style="list-style-type: none"> <li>■ NAT/NAPT router with wire-speed</li> <li>■ MAC address cloning</li> <li>■ SIP proxy redundancy: <ul style="list-style-type: none"> <li>- dynamic via DNS SRV,</li> <li>- A records</li> </ul> </li> <li>■ Direct IP to IP calling</li> <li>■ NAT Traversal by STUN</li> <li>■ Support DMZ and Super DMZ</li> <li>■ Built-in Wired speed NAT Router</li> <li>■ DHCP Server and Client</li> <li>■ IP conflict detection</li> <li>■ VPN Passthrough (PPTP,L2TP and IPSec)</li> <li>■ Virtual Server for Port Mapping</li> <li>■ Speed Limit</li> <li>■ QoS with Layer 2 and Layer 3</li> <li>■ ARP spoofing prevention</li> </ul>
<b>Call Features</b>	<ul style="list-style-type: none"> <li>■ 3-way conference</li> <li>■ Music on hold</li> <li>■ Call hold</li> <li>■ Call forwarding</li> <li>■ Call mute</li> <li>■ Call Transfer</li> <li>■ Call waiting</li> <li>■ Caller ID and CWCID</li> <li>■ DTMF Relay: <ul style="list-style-type: none"> <li>- In-band</li> <li>- Out-band</li> <li>- SIP info</li> </ul> </li> <li>■ Hotline</li> <li>■ Short Dial</li> <li>■ Call Block</li> <li>■ Dial Plan</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>■ (L) 120 x (W) 80 x (H) 28 mm</li> </ul>
<b>Unit Weight</b>	<ul style="list-style-type: none"> <li>■ 140 g ( without package)</li> </ul>