Product Specifications

TA04G-F68

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PRODUCT OVERVIEW

1.1 Introduction

TA04G-F68 connects to computer by four Ethernet Ports, either by Wireless. It is an ideal device for broadband wireless access.

TA04G-F68 supports IEEE 802.11b/g/n, Users could enjoy 270Mbps speed steadily. In security, it supports all-ser of the Wireless Transfers Encrypt Protocol.

It has high performance, standard-based and existence together with general line. It is the best choice of telecommuting wini-type office and family. It can carry out VOD, ftp, downloading files more quickly than traditional MODEM. Moreover, low cost which it brings also is that we are glad to see.

It supports upload transmission speed up to 1Mbps and download speed up to 8 Mbps (24Mbps for ADSL2+). The setting of the ADSL2/2+ is flexible and convenient.

In function, TA04G-F68 supported 8 PVCs; powerful router function; Diagnosis Function; Multicast Function; PPPoE Function; Real-time listening the status of the network connection; Monitor software.

In manipulation, TA04G-F68 provides one convenient, friendly configuration UI; In software maintenance, TA04G-F68 may remote upgrade and remote management; In compatibility, TA04G-F68 is compatible to popular DSLAM absolutely.

1.2 Product Key Feature

- 1. Support IEEE 802.11b/g/n, Wireless Rate achieve 270Mbps.
- Support ANSI T1.413 Issue 2; ITU G.992.1 (G.dmt) Annex A,B,C; ITU G.992.2 (G.lite); ITU G.992.3 ADSL2 (G.dmt.bis); ITU G.992.4 ADSL (G.lite.bis); ITU G.992.5 ADSL2+; Extended Reach(READSL2),
- 3. TA04G-F68 is not only a powerful ADSL modem, but a strong local network router with features of DHCP, DNS and NAPT.
- 4. Downstream up to 8M for ADSL,24 Mbps for ADSL2+; Upstream up to 1Mbps
- 5. Routing from WAN to LAN
- 6. Basic Gateway features such as NAT, DHCP, and DNS. Etc, to provide the capability to construct private network.
- 7. Firewall
- 8. IP filter, IP forwarding, IPQos
- 9. Web-based GUI
- 10. Support 8 PVCs
- 11. ATM management features
- 12. Parent Control

2 HARDWARE ARCHITECTURE

2.1 Hardware Interfaces

- Four RJ-45 ports for 10/100 Base-T Ethernet LAN connection to PC
- One RJ-11 port for connection to WAN (for ADSL Line)
- One reset button to default setting
- One power jack
- One WPS/WIFI button
- One USB2.0

2.2 Main Chipset Information

Item	Vendor	Model # & Edition
CPU	Broadcom	BCM63281T

2.3 LED Definitions

Label Status	POWER	LAN1-4	WLAN/WPS	USB2. 0	LINK	INTERNET
Steady Light	Power on	Ethernet line is connected	 Client connected, LED will turn off after ca. 2 Minutes wirelsss is connected 	USB device is connec ted	The modem is in good connection	Connected with PC
Flashing	/	/	WPS is searching for new client after pushing WPS/WIFI bottom	/	In handshaking status	/
Fast Flashing	/	Transformi ng data	Transforming data	Transfo rming data	/	Transmitting or receiving data
Off	Power off	Ethernet line not connected properly	1.Wireless not connected 2.WPS off	NoUSB device connec ted	Connection not set up	Not connected with PC property

3 SOFTWARE FEATURES

TA04G-F68 provides the following features:

ADSL		
	T1.413i2, G.992.1	
	(G.dmt), G.992.2	
	(G.lite)	
	Annex A (Annex B	
	and C are optional)	
G.992.3		ADSL and ADSL2 dual mode
		PHY
	G.992.5 (ADSL2+)	ADSL2+
	Annex L (Reach	
	Extended ADSL2)	
	Annex M	
ATM		
	PVCs	supports 8 PVCs
	ATM QoS: CBR, rt-	
	VBR, nrt-VBR, UBR-	
	with-PCR, UBR	
	service categories	
	and associated traffic	
	parameters (PCR, SCR,	
	MBS)	
Wireless		
	MAC filter	
	Wireless bridge	
	802.1x/Radius	Available through special release
	server/Dynamic	
	WEP allocation	
	Secure Easy Setup	
	(SES)	
	Multiple SSIDs,	
Davis	QoS/WMM	
Device		
Configuration,		
Management and		
Update	Web based GUI	
	Embedded web server	
	Download image via	
	HTTP or tftp client	
	Download image via	
	FTP server	
Download image via		
	TFTP server	
	Command Line	added dumpcfg, sntp commands.
	Interface via serial	Added option to tftp, adsl, wan, ppp
	port, telnet, or ssh	commands. Upgrade sshd to version
	DOLL TELLET OL 2211	
	port, temet, or ssir	0.46.

		A 1 1 1 1 2 2 2
	Menu-driven CLI via serial port or telnet	Added dump configuration.
		V2.14L 02: Upgraded UDaD with
	Universal Plug and	V2.14L.02: Upgraded UPnP with
	Play (UPnP) Internet	latest version.
	Gateway Device	Added support for ADSL IGD.
	(IGDv1.0)	Enable/disable UPnP without reboot.
	SNMP v1/v2c agent	
	SNMP MIBs: rfc2662	Support GET only except
	ADSL line MIB,	GET/SET for system MIB and
	rfc2515 ATM MIB,	ifAdminStatus in ifTable.
	MIB-II	
	Date/time update	Automatic synchronize date and time
	from SNTP Internet	with Internet Time Servers and local
	Time Server	time zone setup.
		Display Date/time in device info and
		syslog. Added SNTP command.
	Daylight saving zone	
	TR-69	Support 273
		parameters,digest/certificate/SSL
		security.
		Support proprietary parameters
		implementation without tr69c
		framework sources
Security		
	Three level login	
	Three level login including local	
	_	
	including local	
	including local admin, local user and remote technical	
	including local admin, local user	Access control from LAN or WAN
	including local admin, local user and remote technical support access	
	including local admin, local user and remote technical support access Service access control based on	is individually configurable for
	including local admin, local user and remote technical support access Service access	
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp,
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses.
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP smurfing, ping of Death, fraggle,-
	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP
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Diagnostics	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP smurfing, ping of Death, fraggle,-UDP ECHO (port 7), teardrop,
Diagnostics	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service (DOS) Responds and	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP smurfing, ping of Death, fraggle,-UDP ECHO (port 7), teardrop,
Diagnostics	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service (DOS) Responds and initiates ATM OAM	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP smurfing, ping of Death, fraggle,-UDP ECHO (port 7), teardrop,
Diagnostics	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service (DOS) Responds and initiates ATM OAM F4/F5 end-to-end,	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP smurfing, ping of Death, fraggle,-UDP ECHO (port 7), teardrop,
Diagnostics	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service (DOS) Responds and initiates ATM OAM F4/F5 end-to-end, segment-to-segment	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP smurfing, ping of Death, fraggle,-UDP ECHO (port 7), teardrop,
Diagnostics	including local admin, local user and remote technical support access Service access control based on incoming interface: WAN or LAN Service access control based on source IP addresses Denial of Service (DOS) Responds and initiates ATM OAM F4/F5 end-to-end,	is individually configurable for http, telnet, snmp, ftp, tftp, ssh, icmp Access control based on source IP address for http, telnet, snmp, ftp, tftp, ssh, icmp. Maximum capacity is 16 IP addresses. Protect following DOS attacks from WAN/LAN: SYN flooding, IP smurfing, ping of Death, fraggle,-UDP ECHO (port 7), teardrop,

	T	
	based on idle cell bit	
	error detection	
	PPPoE server	
	discovery	
	Ping DNS server and	
	Default Gateway	
	Statistics display for	Added Ethernet switch port 1 ~ 3
	ADSL PHY, ATM,	statistics display. V2.14L.02
	LAN (USB, Ethernet,	added WAN interface statistics.
	802.11b) and WAN	added Will mondes statistics.
	interfaces	
		Pomovod congrete non un
Diagnostics for		Removed separate pop-up
	multiple PVCs and	diagnostics report WEB page for
	PPPoE sessions	each PVC. Added button to
		diagnose next PVC or session.
Logging		
	User selectable	
	levels	
	Local display and/or	
	send to remote	
	syslog server or save	
	to file	
	ADSL up/down	
	PPP up/down	
	Intrusion alert	
	Primary DNS server	
	status monitor	
	XML config file	Log XML config file parsing
	failures	failures
Debugging Tools	Tanares	Tallaroo
Debugging 100is	Port Mirroring	Monitor and send mirrored
	1 or wintering	Ethernet frames from/to a WAN
Notworking		interface to a LAN port.
Networking Protocols		
	RFC2684 VC-MUX,	VC-MUX for any connection type
	LLC/SNAP	
	encapsulations for	
	bridged or routed	
	packet	
	RFC2364 PPP over	RFC2364 LLC/NLPID
	AAL5	encapsulation for PPPoA
	802.1q/1p VLAN	802.1q header insertion toward
	over RFC2684	WAN and de-insertion toward
	Bridge encapsulation	LAN over RFC2684 bridge mode
		over AAL5. Supports multiple
		VLANs on multiple PVCs and
		mapping VLANs, PVCs and
		physical LAN ports to multiple
		priyaicai LAN porta to multiple

	bridges
PPPoA	bridges. Support AUTO, PAP, CHAP, MS-CHAP authentication Added static IP address assignment.
PPPoE	Support AUTO, PAP, CHAP, MS-CHAP authentication Added static IP address assignment.
Multiple PPPoE sessions on single PVC	Allows multiple PPPoE sessions on one PVC.
PPPoE pass-through	Supports concurrent PPPoE clients inside the modem and PPPoE clients on the LAN devices
PPPoE - filtering of non-PPPoE packets between WAN and LAN	Previously only filtered non- PPPoE packet from LAN to WAN, now works in both directions.
Auto-clean-up remote staled PPP sessions at BRAS	Clean up staled PPP sessions (PPPoE and PPPoA) at ISP BRAS after ADSL link goes down then up or after modem reboots, if scratch pad is enabled on top boot flash.
IPoA	
MER (a.k.a IP over Ethernet over AAL5)	
Transparent bridging between all LAN and WAN interfaces	Enabled STP in bridge for LAN interfaces to avoid looping among multiple wireless gateways.
Second IP address on LAN interface ARP	Only public IP address and no DHCP on second IP address.
DNS relay DNS server fallback in DNS Relay	Launch dnsprobe process when both primary and secondary DNS's are assigned. Probe primary DNS status and fallback to secondary DNS. When primary DNS is up again, switch back to primary DNS.
DHCP server	
DHCP client	
DHCP Relay	DHCP relay agent for IPoA and MER type of WAN connections.
NAPT	
IGMP Proxy	IGMP v1/v2

[IOMP Occursion	IOMP 4/ O io - io - io - io -
	IGMP Snooping	IGMPv1/v2 snooping in bridge mode. Added blocking mode.
	RIP v1/v2	
	RIP VI/V2	Enable RIP over multiple WAN
	Divisions in DNC	Interfaces WANTE
	Dynamic DNS	Automatic update WAN IP
		address when it is changed to
		dyndns.org and/or TZO DDNS
		operator.
	LAN port to VC	Supports traffic mapping between
	mapping	a group of LAN ports to a PVC.
	Ethernet as WAN	Added Ethernet as WAN interface
	interface.	to support PPPoE or IP over
		Ethernet.
	Multiple Protocol	Support multiple protocols on
	VLAN Mux	single PVC using VLAN ID
	Multiple Service PVC	Support PPPoE, Bridge, and
		MER services over a single PVC
Packet Level QoS		
	IP/Bridge/802.1p	Supported both routed and
	QoS	bridged mode PVCs for packet
		level QoS: classification rules,
		priority queuing using ATM TX
		queues, IP TOS/Precedence,
		802.1p marking. Added DiffServ
		DSCP marking and src/dest MAC
		addresses classification.
	CPU resource	manage utilization of the CPU
	reservation for local	resources to allow better quality
	VoIP traffic	of the VoIP calls under heavy
	Von tramo	data traffic conditions
VPN		data trame conditions
*****	IPsec VPN(optional)	Support VPN connection to
	in see vi i (optional)	remote VPN gateway.
Firewall/Filtering		landia vi ii gataway.
I howaith hering	Stateful Inspection	SPI Fire Wall
	Denial of Service	Passed DOS attacks: ARP
	attack	Attack, Ping Attack, Ping of
	allauk	Death, Land, SYNC, Smurf,
	TCP/IP/Port/interface	Unreachable,Tear Drop
		Support both incoming and
	filtering rules	outgoing filtering.
	MAC Layer Filtering	Added IGMP in protocol menu.
		Filter MAC frames based on
		protocol type, source/destination
	Day Gas Day 1	MAC address, direction
	Day-time Parental	
NADT	Control	
NAPT Configuration		

	Deat Trianguin	Dedector of WED III, added 0
	Port Triggering	Redesigned WEB UI; added 9
		applications in application menu.
	Port forwarding	Redesigned WEB UI with 134
		applications in service menu.
	DMZ host	
ALGs	DIVIZ 11000	
ALGS	11,000	Compart Missasset
	H.323	Support Microsoft
		H.323/NetMeeting.
	TFTP	
	FTP	
	RTSP	Allows Microsoft Windows media
		player, Real media player,
		RealOne Player,
		RealAudio/RealVideo, RealPlayer
		· · · · · · · · · · · · · · · · · · ·
		8, and QuickTime media player to
		use UDP transport.
	ICMP	
	IPSec/VPN and	Allow multiple IPsec sessions
	IPSec/L2TP	from LAN to connect to multiple
	11 000/2211	gateways simultaneously.
		Supports all IPSec transactions
		using ISAKMP framework for key
		negotiation and ESP for payload
		transfer.
	PPTP	
	Microsoft DirectX	Manual configuration is no longer
	games ALG (e.g.,	needed for any DirectX based
	Age of Empire)	game.
	Port Triggering	game.
D (()147)	Port Higgening	
Proxy (for NAT)		
	SIP Proxy	
Other Applications		
pass through NAT		
pace an eagin and	MSN Messenger file	
	_	
	transfer and phone	
	Microsoft Windows	
	Messenger in	
	Windows XP	
	Microsoft Windows	
	Update	
	AOL Instant	
	messenger	
	Yahoo Messenger	
	AT&T Instant	
	Messenger	
	Anywhere	
	ICQ greeting card,	
	message,	

send/requ	upot .
·	
contact, v	
message;	
send file v	vorks if
initiator	
RC Chat	
	r chat room
between	
and NAT	
supporting	g DCC chat
and send	
PCAnywh	ere
Remote, 0	Chat, File
Transfer,	Clipboard
with Port	Forwarding
on TCP p	ort 5631
and UDP	port 6532
Age of En	npires
Star Craft	
Half Life	「eam eam each each each each each each each each
Fortress	
Diablo II	
Return to	Castle
Wolfenste	ein
Quake II/0	Quake III
games	
Doom	
Net-to-Ph	one
CuSeeMe	5.00
NNTP	
Talk	
EverQues	st
Unreal To	urnament

4 SPECIFICATIONS AND STANDARDS

4.1 Electrical

4.1.1 Power Requirements:

TA04G-F68 uses an AC adapter that can supply DC voltages.

AC power adaptor: 100VAC-240VAC(50HZ/60HZ)

DC voltage: 12V, 700mA

4.1.2 Heat & Power Dissipation

Power: <8.4W

4.2 Environmental

TA04G-F68 complies with the following standards:

- Temperature:
- 0 to \pm 55 degrees C (Operating)
- -20 to \pm 55 degree C (store status)
- Humidity:
- 10% to 90% (Operating)
 - 5% to 95% (store status)
- Vibration: IEC 68-2-36, IEC 68-2-6
- Shock: IEC 68-2-29
- Drop: IEC 68-2-32

FCC Information

This equipment complies with CFR 47, Part 15.19 of the FCC rules. Operation of the equipment is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

This device must not be co-located or operating in conjunction with any other antenna or transmitter

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Federal Communications Commission (FCC) Requirements, Part 15

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ---Reorient or relocate the receiving antenna.
- ---Increase the separation between the equipment and receiver.
- ---Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ---Consult the dealer or an experienced radio/TV technician for help.

Regulatory information / Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government

CAUTION: To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

MPE Statement (Safety Information)

Your device contains a low power transmitter. When device is transmitted it sends out Radio Frequency (RF) signal.

Safety Information

In order to maintain compliance with the FCC RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use only with supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

FCC Part 68 Statement

This equipment complies with part 68 of the FCC rules. On the rear panel of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for the equipment. If requested, this information must be provided to the telephone company. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area. This equipment uses the following USOC jack: RJC. An FCC-compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant.

This equipment cannot be used on telephone company-provided coin services. Connection to Party Line Service is subject to state tariffs. If this equipment causes harm to the telephone network, the telephone company will notify you in advance that the temporary discontinuance of services may be required. If advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a compliant with the FCC if you believe it is necessary. The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order to maintain uninterrupted service. If the trouble is causing harm to the telephone system, the telephone company may request that you remove the equipment from the network until the problem is resolved. It is recommended that the customer install an AC surge arrestor in the AC outlet to which this device is connected. This is to avoid damaging the equipment by loca lightning strikes and other electrical surges.