

VMG1312-T20B

EU Generic

Firmware Release Note

V5.30(ABSB.5)C0

Date: Aug. 20, 2021

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Reviewer:

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Revision History

Date	Release	Author	Description
2019/04/19	1.0	Ralph Chien	V5.30(ABSB.0)a1
2019/06/05	1.1	Bonnie Zhao	V5.30(ABSB.0)b1
2019/10/22	1.2	Chi-Hao,Lo	V5.30(ABSB.0)b2
2019/10/28	1.3	Chi-Hao,Lo	V5.30(ABSB.0)b3
2019/10/28	1.4	Chi-Hao,Lo	V5.30(ABSB.0)C0
2019/11/21	1.5	Wilbur Lu	V5.30(ABSB.2)b1
2019/12/20	1.6	Wilbur Lu	V5.30(ABSB.2)b2
2020/1/15	1.7	Wilbur Lu	V5.30(ABSB.2)b3
2020/2/10	1.8	Wilbur Lu	V5.30(ABSB.2)C0
2020/6/5	1.9	Ralph Chien	V5.30(ABSB.3)b1
2020/8/28	2.0	Ralph Chien	V5.30(ABSB.3)b2
2020/10/7	2.1	Ralph Chien	V5.30(ABSB.3)b3
2020/10/28	2.2	Ralph Chien	V5.30(ABSB.3)b4
2020/11/26	2.3	Ralph Chien	V5.30(ABSB.3)b5
2020/12/18	2.4	Wilbur Lu	V5.30(ABSB.3)C0
2021/01/26	2.5	Ralph Chien	V5.30(ABSB.4)b1
2021/01/26	2.6	Ralph Chien	V5.30(ABSB.4)C0
2021/02/26	2.7	Ralph Chien	V5.30(ABSB.5)b1
2021/04/23	2.8	Ralph Chien	V5.30(ABSB.5)b2
2021/06/11	2.9	Ralph Chien	V5.30(ABSB.5)b3
2021/08/02	3.0	Ralph Chien	V5.30(ABSB.5)b4
2021/08/09	3.1	Ralph Chien	V5.30(ABSB.5)b5
2021/08/20	3.2	Ralph Chien	V5.30(ABSB.5)C0

Zyxel VMG1312-T20B EU Generic

V5.30(ABSB.5)C0

Release Note

Date: Aug. 20, 2021

Supported Platforms:

Zyxel VMG1312-T20B

Versions:

Bootbase Version: V1.45 | 08/02/2021 17:45:45

Firmware version : V5.30(ABSB.5)C0

Kernel version: 2.6.36

DSL driver version: V5.10.6.0_PQA_20200413

2.4G WLAN code version: 4.0.1.0rev2.P1

3G dongle WWAN package version: 1.22

Notes:

Default Settings in Firmware

- Refer to the *.rom in the fw release package.
- Please use the website <http://jsoneditoronline.org/> to open the *.rom.

Known issues

Modifications in V5.30(ABSB.5)C0

Base on V5.30(ABSB.5)b5 to release V5.30(ABSB.5)C0 FCS

Modifications in V5.30(ABSB.5)b5

[BUG FIX]

1. [WAN] VDSL & ADSL train fail.

Modifications in V5.30(ABSB.5)b4

[BUG FIX]

1. [LED] Disconnect the DSL cable, the internet LED should be light off.
2. [WAN] When VDSL Internet data transmitting, internet LED show Solid Green not meets the PS/ES define.
3. [WAN] Disable Default Gateway, internet LED show Solid Green not meets the PS define.
4. [LED] WWAN or ETH Internet access and does not connect to any Lan terminal, the Internet LED is off.
5. [WLAN] Enable Wi-Fi key reminder, LAN PC open a http website but CPE will not redirect to landing page
6. [WLAN] Enable Wi-Fi key reminder, LAN PC open a https website but CPE will not redirect to landing page
7. [GUI] If WPS is Enabled, UPnP should automatically be turned on.
8. [WAN] The Advanced page note should not show ADSL over PTM wording since Econet model doesn't support screen ADSL over PTM.
9. [Security] Wireless SSID command injection

Modifications in V5.30(ABSB.5)b3

[FEATURE ENHANCEMENT]

1. [GUI] Multi-language GUI for OPAL generic GW + Extender

[BUG FIX]

1. [ACTS] Change admin account user name by ACS server and then reboot, the CPE zhttpd daemon will restart continuously
2. [LAN] DUT should not support Ethernet UNI function.

3. [GUI] Disable WLAN function, the WPS switch button doesn't gray out.
4. [Security] LAN traffic does not pass through the L2TP IP address. And after L2TP VPN changes the LAN interface, L2TP cannot connect successfully.

Modifications in V5.30(ABSB.5)b2

[BUG FIX]

1. [eITS #201101212] [WAN] MTU size in bridge mode resets to default 1500 after power reset.
2. [GUI] Card page -> LAN page cannot display correctly by IE browser.
3. [Security] L2TP work fail.
4. [Security] L2TP VPN page should not be visible for generic FW by default.
5. [Diagnostic] The diagnostic GUI should not pop-up warning message even user fill in correct FQDN format in TCP/IP address
6. [VLAN Group] The VLAN Group page note should not show any GRE wording since VMG1312-T20B model doesn't support GRE function
7. [USB] Can't add share folder for file sharing
8. [WAN] The CPE GUI should not show programming syntax wording when user click Disconnect button via ADSL PPPoA mode
9. [MAC Filter] Use Drop-down menu to add MAC Filter rule, MAC Filter function cannot work.
10. [GUI] The Broadband table information had been shift.
11. [GUI] Use Wifi Card page to enable random WiFi password, DUT cannot save.

Modifications in V5.30(ABSB.5)b1

[FEATURE ENHANCEMENT]

1. [eITS #200102401] Change default date be the creation or the FW release date instead of 1-1-1970.
2. [eITS #200400636] Modify the web GUI display from "Annex M" to "Annex M/Annex J".

3. [eITS #200400612] Support download & import CA from TR69 by using the FileType "6 ZYXEL SSL CA File".
4. [eITS #200602984] Support disable/enable WiFi HW button function via TR-098 and TR-181.
5. [eITS #200602846] Support log for the behavior when WiFi HW button is triggered and WiFi is enabled/disabled after the button is triggered.
6. [eITS #200700034] Support to use MAC address or serial number as ACS password.
7. [eITS #201001163] Support Lifemote agent v1.3.
8. On MAC filter page, show the devices(drop-down list) which are connected to modem.
9. [eITS #201201184] VLAN0 support for customer's network.
10. Change time format 00:00-23:59 in Parental control page.
11. [OPAL Generic] Key Feature - L2TP (default disabled)

[BUG FIX]

1. [Vulnerability] UPnP protocol can be abused to perform DDoS and/or data exfiltration via SUBSCRIBE capability.
2. [eITS #200800711][Vulnerability] CVE-2019-11358 vulnerability - update jQuery to "3.5.1".
3. [eITS #201101346]Firmware-download url does not follow routing path
4. [eITS #210100668][Vulnerability] Vulnerabilities in Multiple Zyxel Equipment from Sec consult => issue 1,2,4,5,7,8,9,10
5. [eITS #210100667][Vulnerability] Dnsmasq multiple vulnerabilities (DNSPooq)
6. [Vulnerability][CVE-2020-1971] [Openssl]Correctly compare EdiPartyName in GENERAL_NAME_cmp()

Modifications in V5.30(ABSB.4)C0

Base on V5.30(ABSB.4)b1 to release V5.30(ABSB.4)C0 FCS

Modifications in V5.30(ABSB.4)b1

[BUG FIX]

1. [#210100697][System] Supervisor password does not work from WAN side after upgrade

Modifications in V5.30(ABSB.3)C0

Base on V5.30(ABSB.3)b5 to release V5.30(ABSB.3)C0 FCS

Modifications in V5.30(ABSB.3)b5

[FEATURE ENHANCEMENT]

1. [eits #200102401] Set default date as system uname time.

[BUG FIX]

1. [Vulnerability] Unauthenticated Denial-of-Service effectively disabling the device's web-interface.
2. [Vulnerability] Arbitrary remote code execution (RCE) on the device through an HTTP request.
3. [eits #201100482][LAN as WAN] disconnecting of any LAN cable resets the uplink connection.
4. [GUI] Vulnerability issue via Export_Log.

Modifications in V5.30(ABSB.3)b4

[BUG FIX]

1. [GUI] Use Wifi Card page to Set Guest WiFi password, DUT will show "Invalid Pre-Shared Key".
2. [WAN]VDSL can train success but cannot get an IP address.
3. [NAT] CPE hang and show "Invalid memory segment access" when add an address mapping rule with interface "Default" then reboot CPE.

Modifications in V5.30(ABSB.3)b3

[BUG FIX]

1. [Security]WOL command injection
2. buffer overflow when upgrade FW

Modifications in V5.30(ABSB.3)b2

[FEATURE ENHANCEMENT]

1. [#200700120] VMG1312-T20B request to support Ethernet WAN

[BUG FIX]

1. [#190900425] Device.X_ZYXEL_LoginCfg.LogGp.i.Account.i.RemoteAccessPrivilege doesn't work
2. [#200300288] Laptop That Connect to Modem can not access Internet.

Modifications in V5.30(ABSB.3)b1

[FEATURE ENHANCEMENT]

1. [#191100506] Option 61 Identifier unique for each device
2. [#200100461] Updated JSON file with modifications for Czech language
3. [#191200210] OPAL Support
Device.ManagementServer.InformParameter.{i}.
4. [#191200262] OPAL Support user_startup_parameters.sh
5. [#200300859] VMG8825, TR69 watchdog log
6. OPAL Regular Q1Y20 b1_Key feature
7. OPAL Release_Remove WLAN schedule
8. Support LAN4 as ETHWAN on Econet platform for VMG1312-T20B

[BUG FIX]

1. [#190900425]
Device.X_ZYXEL_LoginCfg.LogGp.i.Account.i.RemoteAccessPrivilege doesn't work
2. [#190900457] The bridge client cannot run IGMP server if If Con-current WAN use PPPoE + bridge.
3. [#200100462] Other modifications for Czech language which are not available in JSON file
4. [#200100533] WAN interface with VLAN ID and default Gateway
5. [#191200311] Config DHCP client option42 on non-default interfaces
6. [#200103035] EMG3525-T50B_Incorrect model number
7. [#200201333] Parental control in Turkish language display incorrect
8. [#200201334] The Default of parental control in card page and advance page are not consistent
9. [#200200810] fixed/hardcoded SSID to be broadcasted out before the wifi driver boot up

10. [#200300675] {Security Vulnerability} - Kr00k with BCM/Cypress wifi chipset - Zyxel UK
11. [#200400142] DSL Advanced configuration apply unsuccessful
12. [#200401166] Encapsulation Type - GUI option ADSL over ATM, VDSL over PTM
13. [#200401236] VMG8825, PeriodicInformTime via CLI

Modifications in V5.30(ABSB.2)C0

Base on V5.30(ABSB.2)b3 to release V5.30(ABSB.2)C0 FCS

Modifications in V5.30(ABSB.2)b3

[FEATURE ENHANCEMENT]

1. [#119655][#191200326] Unique ACS Username and Password.

Modifications in V5.30(ABSB.2)b2

[FEATURE ENHANCEMENT]

9. [#106952][#190500025][GUI] Separate LAN/WLAN as different column in remote management page.
10. [#119655][#191200326] Unique ACS Username and Password

[BUG FIX]

14. [#109201][WAN] Internet LED cannot be flashing when Lan PC surf internet via 3G WAN.
15. [#119131][GUI] Use Wifi Card page to change wifi setting, DUT will show Setting not successful. Please try again.

Modifications in V5.30(ABSB.2)b1

[FEATURE ENHANCEMENT]

1. [eITS #190400092] Support IGMP log on system log
2. [eITS #190400662] Support DHCPv6 option64 for IPv6 DS-Lite
3. [eITS #190500612] Enable DHCP option 43 by default
4. [eITS #190500747] Support Portuguese GUI.
5. [eITS #190500597] Support Turkey GUI.
6. [eITS #190700652] Support Russian GUI
7. Support Czech GUI

8. [#114453][#190900750] Listing processes on console might output pppd auth params
9. [#115144][#190901023] FRQ VMG8825-B50B QoS / static route ro interface "drop"
10. [#106951][#190500597] OPAL Generic Feature Request for GMT time zone of Turkey
11. [#107935][#190600082] GUI page will try to connect to a unnecessary JavaScript/CSS
12. [#110767][#190700379] Multiple TCP-based remote denial of service vulnerabilities
13. [#110554][#190700496] USB File Sharing case-sensitive issue
14. [#111461][#190800137] Pen Test Results - ZyShell Privilege Escalation
15. [#111526][#190800211] TR069 watchdog relaunch
16. [#113874][#190800234] Pen test results - Vulnerable software packages - Risk [Various - See CVE score]
17. [#112114][#190800585]
EMG3525-T50B_TR-069_OperatingChannelBandwidth Incorrect Value
18. [#112115][#190800588] EMG3525-T50B_TR-069_Total BytesSent and Total BytesReceived values remains on 0
19. [#113056][#190801239] EMG3525 QR-code for SSID not correct in GUI
20. [#114120][#190900534] EMG3525 Key-based authentication doesn't work.

[BUG FIX]

1. [eITS #190501104] Some TR069 ATM parameters will be returned on eth/vdal/wwan interfaces with GPN.
2. [eITS #190600597] Upload certificate error after changed gateway IP address
3. [eITS #190600727] SSID not visible then reappears but will no longer allow client device to authenticate
4. [eITS #190700674] DHCP with one address ip(Configure LAN subnet mask to 255.255.255.252) in the pool don't work
5. [#116658][#190500035] VMG8825 zcmd reach the maximum number of instant, will loop endless.

6. [#113907][#190900326] EMG3525 IGMPv3 used even if IGMPv2 is configured
7. [#115339][#191000125] EMG3525 Include GenXML utility in firmware
8. [#115340][#191000127] EMG3525 Multiple Ethernet WAN-interfaces without VLAN-tag
9. [#115808][#191000575] XML GPV
InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.1
PInterface.1.X_ZYXEL_DHCPv6Server.IANAPrefixes
10. [#116249][#191000920] VMG1312-T20B higher attenuation issue
11. [#116662][#191001109] VMG3625-T20A can't import trusted CA
12. [#117174][#191100119] Language Settings: modify languages option.

Modifications in V5.30(ABSB.0)C0

Based on V5.30(ABSB.0)b3 to release V5.30(ABSB.0)C0 (E0 configuration)

Modifications in V5.30(ABSB.0)b3

[FEATURE ENHACEMENT]

1. SingleSKU_Internal_antenna_EU_20190510 for VMG1312-T20B_EU_Generic.

[BUG FIX]

1. [#116441] The SSID is different from default setting
2. [#116500] The MAC Address Quantity is different from PS

Modifications in V5.30(ABSB.0)b2

[FEATURE ENHACEMENT]

1. SingleSKU_Internal_antenna_EU_20190510 for VMG1312-T20B_EU_Generic.

[BUG FIX]

Modifications in V5.30(ABSB.0)b1

[FEATURE ENHACEMENT]

1. Update power table

[BUG FIX]

1. [WIFI] When push WPS button, WPS LED will not turn on

Modifications in V5.30(ABSB.0)a1

First firmware release

[FEATURE ENHACEMENT]

[BUG FIX]

Public Domain Software Announcements

Open Source Used in product (3rd party software)	Version	From (Source)	Licensing Term	Modified / Used
Bridge-Utils	1.5	http://bridge.sourceforge.net	GPLv2	Used
BusyBox	1.20.1	http://www.busybox.net/	GPLv2	Modified
ebtables	2.0.10-4	http://ebtables.sourceforge.net	GPLv2	Modified
pure-ftpd	1.0.30	http://pureftpd.org	BSD	Modified
iproute2	2-2.6.33	http://repository.timesys.com/buildsources/i/iproute2/	GPLv2	Modified
iptables	1.4.21	http://www.netfilter.org	GPLv2	Modified
udhcp	0.9.8	http://udhcp.busybox.net/	GPLv2	Modified
zebra	0.93a	http://www.zebra.org/	GPLv2	Used
ppp	2.4.3	http://www.roaringpenguin.com/pppoe	GPLv2/BS D	Modified
dropbear	2018.76	http://matt.ucc.asn.au/dropbear/dropbear.html	MIT	Modified
openssl	1.0.2n	http://www.openssl.org	Openssl (BSD-style)	Modified
radvd	1.8	http://www.litech.org/radvd/	BSD	Used
ntfs-3g	2013.1.13	http://ntfs-3g.org	GPLv2	Used
WIDE-DHCPv6	20080615	http://wide-dhcpv6.sourceforge.net/	BSD	Modified
usb-modeswitch	2.1.0	http://www.draisberghof.de/usb_modeswitch/	GPLv2	Used
libusb	1.0.9	http://www.libusb.org/	LGPL 2.1	Used
samba	3.6.25	http://www.samba.org/samba/	GPLv2	Modified
dnsmasq	2.67	http://www.thekelleys.org.uk/dnsmasq/doc.html	GPLv2	Modified
ez-ipupdate	3.0.11b8	http://ez-ipupdate.com/	GPLv2	Used
libpcap	1.1.1	www.tcpdump.org	BSD	Used

expat	1.95.8	http://expat.sourceforge.net/	MIT	Used
tcpdump	4.2.1	http://www.tcpdump.org/	BSD	Used
eventlog	0.2.10	http://git.balabit.hu/?p=bazsi/eventlog-1.0.git;a=summary	BSD	Used
glib	2.37.7	http://www.gtk.org/	GPLv2	Used
gettext	0.16	http://www.gnu.org/software/gettext/	GPLv2	Used
libiconv	1.11.1	http://www.gnu.org/software/libiconv/	LGPL (GNU LIBRARY GENERAL PUBLIC LICENSE V2)	Modified
libffi	3.0.11	http://pkgs.fedoraproject.org/repo/pkgs/libffi/libffi-3.0.11.tar.gz/	MIT	Used
libedit	20080712-2.11	http://pkgs.fedoraproject.org/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz/	GPLv2	Modified
libnfnetworklink	1.0.1	http://www.netfilter.org/projects/libnetfilter_queue/	GPLv2	Used
libusb	1.0.9	http://libusb.wiki.sourceforge.net/	LGPL 2.1	Used
libqmi	1.8.0	http://www.freedesktop.org/wiki/Software/libqmi	GPLv3	Used
readline	6.2	http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html	GPLv2	Used
popt	1.16	http://rpm5.org/files/popt/	MIT	Modified
libnetfilter_queue	1.0.2	http://www.netfilter.org/projects/libnetfilter_queue/	GPLv2	Used
logrotate	3.7.1	https://launchpad.net/ubuntu/hardy/i386/logrotate/	GPLv2	Modified
ntplibclient	2007_365	http://doolittle.icarus.com/ntplibclient/	GPLv2	Modified
net-snmp	5.7.2	http://www.net-snmp.org/	GPL/BSD	Modified
syslog-ng	2.0.10	http://www.balabit.com/network-security/syslog-ng/	GPLv2/LGPLv2.1	Used
libtool	2.4	http://www.gnu.org/software/libtool/	GPLv2	Used

ncurses	5.7	http://ftp.gnu.org/pub/gnu/ncurses/	MIT	Modified
json-c	0.13.1	https://github.com/json-c/json-c/downloads	MIT	Modified
clinkc	2.4	http://sourceforge.net/projects/clinkc/	BSD	Modified
sqlite	3.6.23.1	http://www.sqlite.org/	Public Domain License	Used