

PM7300-T0 Generic

Firmware Release Note

V5.42(ABYY.1)C0

Date: Dec 2, 2022
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Revision History

Date	Release	Author	Description
2021/03/19	1.0	GuanHong Chen	FW release for V5.42(ABYY.0)b1
2021/04/23	2.0	GuanHong Chen	FW release for V5.42(ABYY.0)b2
2021/07/09	3.0	GuanHong Chen	FW release for V5.42(ABYY.0)b3
2021/08/13	4.0	GuanHong Chen	FW release for V5.42(ABYY.0)b4
2021/09/17	5.0	GuanHong Chen	FW release for V5.42(ABYY.0)b5
2021/10/14	6.0	GuanHong Chen	FW release for V5.42(ABYY.0)b6
2021/11/11	7.0	GuanHong Chen	FW release for V5.42(ABYY.0)b7
2021/11/21	8.0	GuanHong Chen	FW release for V5.42(ABYY.0)b8
2022/07/14	9.0	ChihJia Lee	FW release for V5.42(ABYY.1)b1
2022/11/24	10.0	Cindy Chen	FW release for V5.42(ABYY.1)b2
2022/12/02	11.0	Cindy Chen	FW release for V5.42(ABYY.1)C0

PM7300-T0 Generic V5.42(ABYY.1)C0 Release Note

Date: Dec 02, 2022

Supported Platforms:

Zyxel PM7300-T0

Versions:

Bootbase Version : V1.43 | 11/23/2022 10:06:10

Firmware version : V5.42(ABYY.1)C0

Kernel version: 4.4.115

Notes:

Public Domain Software Announcements

Open Source Used In Product	Version	From (Source)	License Terms	Modified / Used
atftp	0.7.1	https://sourceforge.net/projects/atftp/	GPLv2	Modified
bridge-Utills	1.5	https://git.kernel.org/pub/scm/linux/kernel/git/shemminger/bridge-utils.git/	GPLv2	Modified
busybox	1.20.1	https://busybox.net/	GPLv2	Modified
clinkc	2.4	https://sourceforge.net/projects/clinkc/	BSD	Modified
conntrack-tools	1.4.3	https://git.netfilter.org/conntrack-tools/	GPLv2	Used
dnsmasq	2.67	http://www.thekelleys.org.uk/dnsmasq/doc.html	GPLv2/GPLv3	Modified
dropbear	2018.76	https://github.com/mkj/dropbear	MIT	Modified
ebtables	2.0.10-4	https://git.netfilter.org/ebtables/	GPLv2	Modified
eventlog	0.2.10	https://github.com/balabit/eventlog	BSD	Used
expat	1.95.8	https://github.com/libexpat/libexpat	MIT	Used
ez-ipupdate	3.0.11b8	http://ez-ipupdate.com/	GPLv2	Modified
gettext	0.16	http://www.gnu.org/software/gettext/	GPLv2	Used
glib	2.37.7	http://www.gtk.org/	LGPLv2	Used
iproute2	2.6.33	https://github.com/shemminger/iproute2	GPLv2	Modified
iptables	1.4.21	https://git.netfilter.org/iptables/	GPLv2	Modified
jpegsrcc	v9a	http://www.iijg.org/	IJG	Used
json-c	0.13.1	https://github.com/json-c/json-c/downloads	MIT	Modified
libedit	20080712-2.11	http://pkgs.fedoraproject.org/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz/	BSD	Modified
libffi	3.0.11	http://pkgs.fedoraproject.org/repo/pkgs/libffi/libffi-3.0.11.tar.gz/	MIT	Used
libiconv	1.11.1	http://www.gnu.org/software/libiconv/	LGPLv2	Modified
libnetfilter_conntrack	1.0.4	https://git.netfilter.org/libnetfilter_conntrack/	GPLv2	Used
libnetfilter_queue	1.0.2	https://git.netfilter.org/libnetfilter_queue/	GPLv2	Used
libnfnetlink	1.0.1	https://git.netfilter.org/libnfnetlink/	GPLv2	Used

libnl-tiny	0.1	https://github.com/openwrt/openwrt/tree/master/package/libs/libnl-tiny	GPLv2/LGPLv2.1	Used
libpcap	1.1.1	www.tcpdump.org	BSD	Used
libtool	2.4	http://www.gnu.org/software/libtool/	GPLv2	Used
libusb	1.0.9	https://sourceforge.net/projects/libusb/	LGPL 2.1	Used
libstrophe	0.10.0	https://github.com/strophe/libstrophe	GPLv2	Used
Linux/Arm Kernel	4.1.52			Modified
logrotate	3.7.1	https://launchpad.net/ubuntu/hardy/i386/logrotate/	GPLv2	Modified
mailsend	1.17b15	https://github.com/muquit/mailsend/	BSD	Modified
ncurses	5.7	http://ftp.gnu.org/pub/gnu/ncurses/	MIT	Modified
net-snmp	5.7.2	http://www.net-snmp.org/	ISC/BSD	Modified
ntfs-3g	2013.1.13	http://ntfs-3g.org	GPLv2/LGPLv2	Used
ntpclient	2007_365	http://doolittle.icarus.com/ntpclient/	GPLv2	Modified
openssl	1.1.1n	http://www.openssl.org	OpenSSL	Modified
popt	1.16	http://rpm5.org/files/popt/	MIT	Modified
ppp	2.4.3	http://www.roaringpenguin.com/pppoe	GPLv2/BSD	Modified
pure-ftpd	1.0.30	http://pureftpd.org	ISC/BSD	Modified
radvd	1.8	http://www.litech.org/radvd/	BSD	Used
readline	5.2	http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html	GPLv2	Used
samba	3.6.25	http://www.samba.org/samba/	GPLv3	Modified
sqlite	3.6.23.1	http://www.sqlite.org/	Public Domain License	Used
syslog-ng	2.0.10	https://github.com/balabit/syslog-ng	GPLv2	Used
tcpdump	4.2.1	http://www.tcpdump.org/	BSD	Used
udhcp	0.9.8	http://udhcp.busybox.net/	GPLv2	Modified
usb-modeswitch	2.1.0	http://www.draisberghof.de/usb_modeswitch/	GPLv2	Used
util-linux	2.21.2	https://github.com/karelzak/util-linux/	GPLv2	Used
wide-dhcpv6	20080615	https://sourceforge.net/projects/wide-dhcpv6/	BSD	Modified
zebra	0.93a	http://www.zebra.org/	GPLv2/LGPLv2	Used
zlib	1.2.7	https://github.com/madler/zlib	zlib	Used

Known issues

Modules	Issue	Risk Impact Information

Modifications in V5.42(ABYY.1)C0

● Feature Enhancement

Modified Modules	Features Enhancement List
FCS	Based on V5.42(ABYY.1)b2, Change to FCS version

Modifications in V5.42(ABYY.1)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
OMCI	[#172175][OMCI]Support Upstream IGMP TCI and Upstream IGMP tag control

● Bug Fixed

Modified Modules	Bug Fixed List
Security	<ol style="list-style-type: none"> [#179017]Zyxel-SI-1441 [Vulnerability] Hidden SSID and symbolic Links in ftpd of AX7501-B0 [#177525]Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability for PM7300-T0
System	[#166039][eits 220400784]PM7300-T0 reboots

Modifications in V5.42(ABYY.1)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
Security	[#166049][PM7300-T0] [Vulnerability] Infinite loop in

	BN_mod_sqrt() of OpenSSL when parsing certificates
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● Bug Fixed

Modified Modules	Bug Fixed List
System	[#169718][eITS 220700081]PM7300-T0 #11 Blocked IGMP Leave message [#168516][eITS 220600052]PM7300-T0 - using Huawei OLT create IPoE interface fail
xPON	[#166035][eITS 220400339]Zyxel PM7300-T0 not IOP Huawei OLT
Security	[#166047][PM7300-T0] [Vulnerability][Generic] cleartext storage of sensitive information vulnerability

Modifications in V5.42(ABYY.0)C0

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in V5.42(ABYY.0)b8

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Stress	1.#156046 ONT connect DUT(DX5301-B3) to test stress, but ONT's console will issue many warning logs and GUI can't login 2. # 154785 [Stress] LAN PC does not access GUI after Keep CPE idle time over 72 hours
System	1. #151962 When ONT is idle, it will happen many warnings that cause ONT to crash(Random)

Modifications in V5.42(ABYY.0)b7

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
Stress	1.#156046 ONT connect DUT(DX5301-B3) to test stress, but ONT's console will issue many warning logs and GUI can't login 2. # 154785 [Stress] LAN PC does not access GUI after Keep CPE idle time over 72 hours
TR-143	1.#156101 [TR-143] When download file over 3G, then execute GPV to get the value of "TotalBytesReceived" is only 2147483647
Log	1. #155967 Enable "OMCI" log, GUI will issue the LAN's warning log of OMCI continuously
System	1. #151962 When ONT is idle, it will happen many warnings that cause ONT to crash(Random)

Modifications in V5.42(ABYY.0)b6

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	1. #154679 [Stress] ONT happen call trace after overnight stress 2. #154680 [Console] Console print "aqr_phy.c [1011]: IOC_GET_link_state start" and "[ponmgr_lib_ioctl][196]:===Fail Exit===Couldn't open /dev/pon, fd = -1" continuously
TR-069	1. #154837 [TR-143] Perform HTTP Download Diagnostics, CPE work fail. 2. #151914 [TR-143] Upload diagnostic's TotalBytesSent & TotalBytesReceived can't execute normally
WebGui	1. #154808 [Log] Go System Monitor > Log, category does not 'TR-069' item.
OMCI	1. #151814 [GPON] When OLT disables ONU and becomes the O7 state, and then enables it, but ONT still keep in the O1 state
IGMP	1. #154673 [IGMP] LAN PC can not play IPTV.

Modifications in V5.42(ABYY.0)b5

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	1.# 152856 [System] ONT's NTP server cannot sync time and NTP First server doesn't match DST
TR-069	1. #151581 [TR-069] CPE didn't return fault code when server GPV "Device..." on TR-181 data model
WebGui	1. #147043 [PS] ONT's GUI does not match PS document. 2. #147046 [GUI] Go Maintenance > GPON, GUI pop out warn message incorrect.

	3. #152852 [Maintenance] ONT should not support services of WAN side
OMCI	1. #147051 [OMCI] ONT firmware upgrade success but it does not switch to correct FW via OLT. 2. #146002 [OMCI] ONT will register fail when deactive/active ONT via OLT. 3.#146207 [OMCI] VLAN tranlation work fail 4.#146015 [OMCI] ONT will register fail when unplug/plug fiber line.

Modifications in V5.42(ABYY.0)b4

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	1.#151821 [System] In debug mode, after key in "atcr" command, Debug Flag cannot return to 0 2.#151585 [System] Log Setting page lack "TR-069" item. 3.#151514 [System] DST has some problems or not match ONU's settings 4.#145928 [System] Log page can't get any log information
WAN	1.#151504 [WAN] GUI must add a new WAN automatically after registered OLT successfully and get IP address by IP-HOST configuration 2.#151503 [WAN] OLT set a static IP address of IP-HOST, but ONU still use Dynamic IP address 3.#151506 [WAN] Unplug and plug PON line, the ONT's routing WAN of TR-069 cannot get IP address again 4.#146006 [OMCI] ONT will register fail via SLID.
WebGui	1.#151968 [GUI] The default SLID value does not match the

	<p>correct hexadecimal value on the GPON page</p> <p>2.#151743 [GUI] Login "admin" account and the wizard can change "Time zone", so GUI should open NTP setup page</p> <p>3.#151507 [GUI] "System Info" page can't show IPv6 address information</p> <p>4.#151498 [GUI] System Info - WAN status of Tx and Rx show empty values</p>
TR-143	1.#151914 [TR-143] Upload diagnostic's TotalBytesSent & TotalBytesReceived can't execute normallygitk
LAN	1.#151502 [LAN] LAN DHCP function should be removed on LAN Setup page

Modifications in V5.42(ABYY.0)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
TR069	1. Support TR069

● Bug Fixed

Modified Modules	Bug Fixed List
System	<p>1. #145928 [System] Log page can't get any log information</p> <p>2. #147214 [System] Upgrade config file to Rom-d fail via FTP.</p> <p>3. #147200 [System] FW upgrade fail via ftp.</p>
WAN	<p>1. #146206 [OMCI] VLAN untage work fail</p> <p>2. #146015 [OMCI] ONT will register fail when unplug/plug fiber line.</p> <p>3. #146208 [OMCI] QinQ work fail</p>
WebGui	<p>1. #147018 [GUI] Some pages of the GUI are not removed.</p> <p>2. #147047 [GUI] SLID value can not config success when it less than 72 hex.</p> <p>3. #147017 [GUI] GUI display incorrect web page after press F5.</p> <p>4. #147043 [PS] ONT's GUI does not match PS document.</p>

ExpressBoot	1. #147163 [ExpressBoot] Used ExpressBoot to upload config file to ROM-D. DUT's all setting change to default setting after reboot
IGMP	1. #145976 [IGMP] LAN PC can not play IPTV.

Modifications in V5.42(ABYY.0)b2

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	1. #145876 [System] Not support USB, but type USB command display "scsi_mod" information 2. #145877 [System] Enable SSH function, but use "Putty" tool can't connect 192.168.0.1 successfully 3. #145854 [System] The password length of admin does not match "Default Setting List" document 4. #145874 [System] The WiFi country code should be N/A in "Release Note". 5. #145962 [Remote MGMT] LAN PC does not access FTP/SSH.
WAN	4. #146051 [OMCI] ONT firmware upgrade fail via OLT. 5. #146006 [OMCI] ONT will register fail via SLID.
WebGui	5. #146070 [GUI] ONT only has one LAN port, but GUI display LAN2 and LAN3 ports in Traffic Status page 6. #145937 [Default Setting] ONT's GUI does not match Default setting document. 7. #145915 [PS] ONT's GUI does not match PS document.

Modifications in V5.42(ABYY.0)b1

● Feature Enhancement

Modified	Features Enhancement List
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Modules	

● Bug Fixed

Modified Modules	Bug Fixed List