

# PM7300-T0 Generic

Firmware Release Note

V5.42(ABYY.2.1)C0

Date: MAR. 26, 2024

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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
2023/04/12	12.0	Cindy Chen	FW release for V5.42(ABYY.1.1)b1
2023/04/17	13.0	Cindy Chen	FW release for V5.42(ABYY.1.1)C0
2023/06/09	14.0	Cindy Chen	FW release for V5.42(ABYY.1.2)b1
2023/06/12	15.0	Cindy Chen	FW release for V5.42(ABYY.1.2)C0
2023/07/25	16.0	Cindy Chen	FW release for V5.42(ABYY.1.3)b1
2023/08/04	17.0	Cindy Chen	FW release for V5.42(ABYY.1.3)C0
2023/09/07	18.0	Cindy Chen	FW release for V5.42(ABYY.2)b1

2023/10/31	19.0	Zhongde Lai	FW release for V5.42(ABYY.2)b2
2023/12/08	20.0	Cindy Chen	FW release for V5.42(ABYY.2)b3
2023/12/18	21.0	Cindy Chen	FW release for V5.42(ABYY.2)C0
2024/03/22	22.0	Cindy Chen	FW release for V5.42(ABYY.2.1)b1
2024/03/26	23.0	Cindy Chen	FW release for V5.42(ABYY.2.1)C0

**PM7300-T0 Generic  
V5.42(ABYY.2.1)C0  
Release Note**

Date: Mar. 26, 2024

**Supported Platforms:**

Zyxel PM7300-T0

**Versions:**

Bootbase Version : V1.44 | 09/07/2023 15:30:09

Firmware version : V5.42(ABYY.2.1)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	<a href="https://sourceforge.net/projects/atftp/">https://sourceforge.net/projects/atftp/</a>	GPLv2	Modified
bridge-Utills	1.5	<a href="https://git.kernel.org/pub/scm/linux/kernel/git/shemminger/bridge-utils.git/">https://git.kernel.org/pub/scm/linux/kernel/git/shemminger/bridge-utils.git/</a>	GPLv2	Modified
busybox	1.20.1	<a href="https://busybox.net/">https://busybox.net/</a>	GPLv2	Modified
clinkc	2.4	<a href="https://sourceforge.net/projects/clinkc/">https://sourceforge.net/projects/clinkc/</a>	BSD	Modified
conntrack- tools	1.4.3	<a href="https://git.netfilter.org/conntrack-tools/">https://git.netfilter.org/conntrack-tools/</a>	GPLv2	Used
dnsmasq	2.85	<a href="http://www.thekelleys.org.uk/dnsmasq/doc.html">http://www.thekelleys.org.uk/dnsmasq/doc.html</a>	GPLv2	Modified
dropbear	2018.76	<a href="https://github.com/mkj/dropbear">https://github.com/mkj/dropbear</a>	MIT	Modified
ebtables	2.0.10-4	<a href="https://git.netfilter.org/ebtables/">https://git.netfilter.org/ebtables/</a>	GPLv2	Modified
eventlog	0.2.10	<a href="https://github.com/balabit/eventlog">https://github.com/balabit/eventlog</a>	BSD	Used
expat	1.95.8	<a href="https://github.com/libexpat/libexpat">https://github.com/libexpat/libexpat</a>	MIT	Used
ez-ipupdate	3.0.11b8	<a href="http://ez-ipupdate.com/">http://ez-ipupdate.com/</a>	GPLv2	Modified
gettext	0.16	<a href="http://www.gnu.org/software/gettext/">http://www.gnu.org/software/gettext/</a>	GPLv2	Used
glib	2.37.7	<a href="http://www.gtk.org/">http://www.gtk.org/</a>	LGPLv2	Used
iproute2	2.6.33	<a href="https://github.com/shemminger/iproute2">https://github.com/shemminger/iproute2</a>	GPLv2	Modified
iptables	1.4.21	<a href="https://git.netfilter.org/iptables/">https://git.netfilter.org/iptables/</a>	GPLv2	Modified
jpegsrvc	v9a	<a href="http://www.iijg.org/">http://www.iijg.org/</a>	IJG	Used
json-c	0.13.1	<a href="https://github.com/json-c/json-c/downloads">https://github.com/json-c/json-c/downloads</a>	MIT	Modified
libedit	20080712-2.11	<a href="http://pkgs.fedoraproject.org/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz/">http://pkgs.fedoraproject.org/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz/</a>	BSD	Modified
libffi	3.0.11	<a href="http://pkgs.fedoraproject.org/repo/pkgs/libffi/libffi-3.0.11.tar.gz/">http://pkgs.fedoraproject.org/repo/pkgs/libffi/libffi-3.0.11.tar.gz/</a>	MIT	Used
libiconv	1.11.1	<a href="http://www.gnu.org/software/libiconv/">http://www.gnu.org/software/libiconv/</a>	LGPLv2	Modified
libnetfilter_co nntrack	1.0.4	<a href="https://git.netfilter.org/libnetfilter_conntrack/">https://git.netfilter.org/libnetfilter_conntrack/</a>	GPLv2	Used
libnetfilter_qu eue	1.0.2	<a href="https://git.netfilter.org/libnetfilter_queue/">https://git.netfilter.org/libnetfilter_queue/</a>	GPLv2	Used
libnfnetlink	1.0.1	<a href="https://git.netfilter.org/libnfnetlink/">https://git.netfilter.org/libnfnetlink/</a>	GPLv2	Used

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

Known issues

Modules	Issue	Risk Impact Information

**Modifications in V5.42(ABYY.2.1)C0**

● **Feature Enhancement**

Modified Modules	Features Enhancement List
FCS	Based on V5.42(ABYY2.1)b1, Change to FCS version

**Modifications in V5.42(ABYY.2.1)b1**

● **Bug Fixed**

Modified Modules	Bug Fixed List
Security	<ol style="list-style-type: none"> <li>[#208301] Zyxel-SI-1536 [Vulnerability] Buffer overflow vulnerability in the "traceroute" command of DX3300-T1 CPE</li> <li>[#208302] Zyxel-SI-1506 [Vulnerability] Post-authentication buffer overflow in VMG3625-T50B</li> </ol>

**Modifications in V5.42(ABYY.2)C0**

● **Feature Enhancement**

Modified Modules	Features Enhancement List
FCS	Based on V5.42(ABYY2)b3, Change to FCS version

**Modifications in V5.42(ABYY.2)b3**

● **Feature Enhancement**

Modified Modules	Features Enhancement List
OMCI	[ENHANCE][#199643] Changing SLID default value from empty to MAC address

● **Bug Fixed**

Modified Modules	Bug Fixed List
OMCI	<ol style="list-style-type: none"> <li>3. [#200777][PON] When user change VLAN QinQ setting via OLT, user should reboot CPE then the new setting works</li> <li>4. [#200772][PON] When user change VLAN Translation setting via OLT, user should reboot CPE then the new setting works</li> </ol>

## Modifications in V5.42(ABYY.2)b2

### ● Feature Enhancement

Modified Modules	Features Enhancement List
OMCI	[#198665][eITS#230901139][OpenXS] S-VLAN and C-VLAN from the SFU PM 7300-T0.
Security	[#200581][eITS#230601286] Dnsmasq version upgrade.

### ● Bug Fixed

Modified Modules	Bug Fixed List
System	[#145927][System] Language list box only contains "English".

## Modifications in V5.42(ABYY.2)b1

### ● Feature Enhancement

Modified Modules	Features Enhancement List
System	<ol style="list-style-type: none"> <li>1. [#196583][PM7300-T0] Change default MTU size to 2000</li> <li>2. [#196255][PM7300-T0][Generic][ETSI EN 303 645] The consumer IoT device shall protect the confidentiality of critical security parameters that are communicated via remotely accessible network interfaces.</li> <li>3. [#196250][PM7300-T0][Generic] Console redirect/Zconsole monitor.</li> <li>4. [#196247][PM7300-T0][Generic] Support Web http redirect</li> </ol>

	to https. 5. [#195852][OPAL_Generic][PON platform] To encrypt GPON password in backup configuration
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● **Bug Fixed**

Modified Modules	Bug Fixed List

**Modifications in V5.42(ABYY.1.3)C0**

● **Feature Enhancement**

Modified Modules	Features Enhancement List
FCS	Based on V5.42(ABYY.1.3)b1, Change to FCS version

**Modifications in V5.42(ABYY.1.3)b1**

● **Feature Enhancement**

Modified Modules	Features Enhancement List
System	[#194269][eITS#230700881]Test PM 7300-T0

● **Bug Fixed**

Modified Modules	Bug Fixed List

**Modifications in V5.42(ABYY.1.2)C0**

● **Feature Enhancement**

Modified Modules	Features Enhancement List
FCS	Based on V5.42(ABYY.1.2)b1, Change to FCS version

## Modifications in V5.42(ABYY.1.2)b1

### ● Feature Enhancement

Modified Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List
OMCI	<ol style="list-style-type: none"> <li>[#190502][eITS#230500713]PM7300 - DS FEC values not as expected.</li> <li>[#191328][eITS#230401106]PM7300-T0 - wrong Plug-in unit</li> </ol>

## Modifications in V5.42(ABYY.1.1)C0

### ● Feature Enhancement

Modified Modules	Features Enhancement List
FCS	Based on V5.42(ABYY.1.1)b1, Change to FCS version

## Modifications in V5.42(ABYY.1.1)b1

### ● Feature Enhancement

Modified Modules	Features Enhancement List
OMCI	[#187041][eITS#230301538][OMCI]TC 6.3.7, 6.10.7 and 6.10.8 are failed

### ● Bug Fixed

Modified Modules	Bug Fixed List
Security	[#187478][Zyxel-SI-1464] [Vulnerability] OpenSSL multiple vulnerabilities for PM7300-T0
System	[#187593][eITS#221100592]PM7300-T0 - reset issue

## 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"> <li>[#179017]Zyxel-SI-1441 [Vulnerability] Hidden SSID and symbolic Links in ftpd of AX7501-B0</li> <li>[#177525]Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability for PM7300-T0</li> </ol>
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

### ● Bug Fixed

Modified	Bug Fixed List
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Modules	
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)
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## 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 "agr_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.

	<p>2. #146002 [OMCI] ONT will register fail when deactivate/active ONT via OLT.</p> <p>3.#146207 [OMCI] VLAN translation work fail</p> <p>4.#146015 [OMCI] ONT will register fail when unplug/plug fiber line.</p>
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## Modifications in V5.42(ABYY.0)b4

### ● Feature Enhancement

Modified Modules	Features Enhancement List

### ● Bug Fixed

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

	information 4.#151498 [GUI] System Info - WAN status of Tx and Rx show empty values
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	1. #145928 [System] Log page can't get any log information 2. #147214 [System] Upgrade config file to Rom-d fail via FTP. 3. #147200 [System] FW upgrade fail via ftp.
WAN	1. #146206 [OMCI] VLAN untage work fail 2. #146015 [OMCI] ONT will register fail when unplug/plug fiber line. 3. #146208 [OMCI] QinQ work fail
WebGui	1. #147018 [GUI] Some pages of the GUI are not removed. 2. #147047 [GUI] SLID value can not config success when it less than 72 hex. 3. #147017 [GUI] GUI display incorrect web page after press F5. 4. #147043 [PS] ONT's GUI does not match PS document.
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 Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List