

PM5100-T0 Generic/ PM3100-T0 Generic

Firmware Release Note

V5.42(ACBF.1.2)C0

Date: Feb 21, 2023
Author: Cindy Chen
Reviewer: Justin Lin

THIS DOCUMENT CONTAINS PROPRIETARY TECHNICAL INFORMATION THAT IS THE PROPERTY OF THE Zyxel AND SHOULD NOT BE DISCLOSED TO OTHERS IN WHOLE OR IN PART, REPRODUCED, COPIED, OR USED AS BASIS FOR DESIGN, MANUFACTURING OR SALE OF APPARATUS WITHOUT WRITTEN PERMISSION OF Zyxel.

TABLE OF CONTENTS

REVISION HISTORY.....	3
SUPPORTED PLATFORMS:.....	4
VERSIONS:	4
NOTES:.....	4
MODIFICATIONS IN V5.42(ACBF.1.2)C0	7
MODIFICATIONS IN V5.42(ACBF.1.2)B1	7
MODIFICATIONS IN V5.42(ACBF.1.1)C0	7
MODIFICATIONS IN V5.42(ACBF.1.1)B1	8
MODIFICATIONS IN V5.42(ACBF.1)C0	8
MODIFICATIONS IN V5.42(ACBF.1)B2	8
MODIFICATIONS IN V5.42(ACBF.1)B1	9
MODIFICATIONS IN V5.42(ACBF.0)C0	11
MODIFICATIONS IN V5.42(ACBF.0)B6	11
MODIFICATIONS IN V5.42(ACBF.0)B5	11
MODIFICATIONS IN V5.42(ACBF.0)B4	12
MODIFICATIONS IN V5.42(ACBF.0)B3	12
MODIFICATIONS IN V5.42(ACBF.0)B2	13
MODIFICATIONS IN V5.42(ACBF.0)B1	14

Revision History

Date	Release	Author	Description
2021/09/28	1.0	GuanHong Chen	FW release for V5.42(ACBF.0)b1
2021/11/19	2.0	GuanHong Chen	FW release for V5.42(ACBF.0)b2
2021/12/20	3.0	GuanHong Chen	FW release for V5.42(ACBF.0)b3
2022/02/16	4.0	GuanHong Chen	FW release for V5.42(ACBF.0)b4
2022/03/03	5.0	GuanHong Chen	FW release for V5.42(ACBF.0)b5
2022/04/13	6.0	GuanHong Chen	FW release for V5.42(ACBF.0)b5
2022/04/18	7.0	GuanHong Chen	FW release for V5.42(ACBF.0)C0
2022/09/20	8.0	Cindy Chen	FW release for V5.42(ACBF.1)b1
2022/09/30	9.0	Cindy Chen	FW release for V5.42(ACBF.1)b2
2022/10/06	10.0	Cindy Chen	FW release for V5.42(ACBF.1)C0
2022/12/01	11.0	Cindy Chen	FW release for V5.42(ACBF.1.1)b1
2022/12/02	12.0	Cindy Chen	FW release for V5.42(ACBF.1.1)C0
2023/02/17	13.0	Cindy Chen	FW release for V5.42(ACBF.1.2)b1
2023/02/21	14.0	Cindy Chen	FW release for V5.42(ACBF.1.2)C0

**PM5100-T0 Generic/ PM3100-T0 Generic
V5.42(ACBF.1.2)C0
Release Note**

Date: Feb 21, 2023

Supported Platforms:

Zyxel PM5100-T0 / PM3100-T0

Versions:

Bootbase Version : V2.0 | 9/30/2022 10:17:42

Firmware version : V5.42(ACBF.1.2)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-Utils	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	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(ACBF.1.2)C0

● Feature Enhancement

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

Modifications in V5.42(ACBF.1.2)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	[#176996][MFG] Using TE config, sometimes LAN port will be disabled after bootup

Modifications in V5.42(ACBF.1.1)C0

● Feature Enhancement

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

Modifications in V5.42(ACBF.1.1)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
Security	1. [#179010]Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability for PM5100-T0 2. [#178655]Zyxel-SI-1441 [Vulnerability] Hidden SSID and symbolic Links in ftpd of AX7501-B0

Modifications in V5.42(ACBF.1)C0

● Feature Enhancement

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

Modifications in V5.42(ACBF.1)b2

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
OMCI	[#174415]PM5100-T0 - blocked untagged traffic in the US direction
IPv6	[#174101][IPv6] The IPoE WAN can not get IPv6 address for TR-069 management.

● Issues had been Enhanced

Modified Modules	Bug Fixed List

Modifications in V5.42(ACBF.1)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
System	[#172208]PM5100-T0 close un-used interfaces
TR-181	[#170200][eITS 220700467]PM5100-T0 TR181 RootDataModelVersion check
OMCI	<ol style="list-style-type: none"> [#168143][eITS 220300947]PM5100-T0 - SFP+ info request from Huawei OLT [#167476][eITS 220301186]PM5100-T0 - factory reset via OMCI ---Support Huawei OLT [#163220][eITS 220301240]PM5100-T0 - OMCI KO communication vs Nokia OLT [#162948][eITS 220300262]PM5100-T0 - OMCI KO communication vs Nokia OLT

● Bug Fixed

Modified Modules	Bug Fixed List
OMCI	<ol style="list-style-type: none"> [#172617][eITS 220701202]Multicast-forward tag translation - Huawei MA56xx OLT

	<ol style="list-style-type: none"> 2. [#170599][eITS 220700103]PM5100-T0 IPTV service is not working on Adtran OLT 3. [#169388][eITS 220600411]PM5100-T0 - ont-eth counters do not work 4. [#167093][eITS 220301457]NOKIA OLT - Conflict on managing VLANs ID in scenarios with different services with Different SVLAN ID but same CVLAN ID 5. [#166882][eITS 220500165]Huawei OLT: display MAC address command doesn't work 6. [#166826][eITS 220500620][PM5100-T0] Connection works, but Oper. Status is Down. 7. [#166814][eITS 220301456]NOKIA OLT - Unexpected traffic remarked on Downstream side 8. [#166812][eITS 220301454]NOKIA OLT - Unexpected remarking of Data Traffic on VLANs 100 and 102 on upstream side 9. [#166806][eITS 220500164]Huawei OLT: Unexpected traffic remarking 10. [#166590][eITS 220301452]NOKIA OLT - Wrong queue management and upstream traffic schedule 11. [#166588][eITS 220301451]NOKIA OLT - ONT UNI interface and VLAN recognized as Operative state DOWN 12. [#166395][eITS 220500166]Huawei OLT: Standby Software version doesn't be shown 13. [#167534][eITS 220500449]PM5100-T0 - blocked untagged traffic in the US direction 14. [#167530][eITS 220500098]PM5100-T0 - VLAN addition
QoS	[#166584][eITS 220500209]priority scheduling doesn't work in Upstream
Security	[#169459][PM5100-T0] [Vulnerability][Generic] cleartext storage of sensitive information vulnerability

● Issues had been Enhanced

Modified Modules	Bug Fixed List

Modifications in V5.42(ACBF.0)C0**● Feature Enhancement**

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in V5.42(ACBF.0)b6**● Feature Enhancement**

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
GPON	[#155043] [GPON] ONT's GPON status mismatch with OLT display

Modifications in V5.42(ACBF.0)b5**● Feature Enhancement**

Modified Modules	Features Enhancement List
OMCI	[ENHANCE][#161800][eITS #220101058][PM5100-T0] PM5100-T0 - error in OMCI communication

● Bug Fixed

Modified Modules	Bug Fixed List
GPON	1. #155043 [GPON] ONT's GPON status mismatch with OLT display. 2. #161736 [WAN] ONT's MGMT WAN does not get IP address after reboot and unplug/plug PON line

Modifications in V5.42(ACBF.0)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
IGMP	#159213 [IGMP] Support Downstream IGMP and multicast TCI

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in V5.42(ACBF.0)b3

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
GUI	1. #155501 [GUI] There are unnecessary information on card page of system info. 2. #154939 [DST] The GUI does not match with DST file. 3. #154932 [PS] The ONT's GUI mismatch the PS. 4. #155305 [GUI] The LAN port speed duplex info can not be shown at card page system info.

	#155620 [System] Change "Supervisor" password by 64 characters that GUI will pop the error message.
TR-069	#157874 [TR-069][TR-181] GPV ['Device.'], ONT returns faultcode 9005.
GPON	#155024 [GPON] Can not set SLID via GUI
IGMP	#155154 [IGMP] Can not play IPTV by VLC in Huawei OLT setting.

Modifications in V5.42(ACBF.0)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
Co-fw	Support co-fw between PM5100-T0 and PM3100-T0

● Bug Fixed

Modified Modules	Bug Fixed List
GUI	<p>#155516 [GUI] There are unnecessary information on card page of LAN.</p> <p>#155513 [GUI] There is no any device information can be shown on connectivity page.</p> <p>#155501 [GUI] There are unnecessary information on card page of system info.</p> <p>#154939 [DST] The GUI does not match with DST file.</p> <p>#154932 [PS] The ONT's GUI mismatch the PS.</p> <p>#155366 [GUI] GUI display incorrect web page after press F5.</p> <p>#155322 [GUI] The GUI should remove unnecessary function.</p> <p>#155290 [WAN] GUI should not allow user to add new WAN interface</p> <p>#155776 [Log setting] The unnecessary active log item should be removed.</p> <p># 155070 [Log] There is no any log in system monitor log page.</p>
System	#155778 [System] Enable button of ZlogSetting function can't be enabled

	<p>#155479 [System] Login admin account on CLI, keyin the command "zycli reboot", but CPE doesn't reboot</p> <p>#155373 [System] The console print fail message if do FW upgrade by express tool.</p> <p>#155370 [System] The power LED wrong if do FW upgrade by express tool include clear ROM-D config.</p> <p>#155313 [System] Enable SSH function, but use "Putty" tool can't connect 192.168.0.1 successfully</p> <p>#155686 [System] The account password is not empty in backup configuration.</p> <p>#155599 [System] Language list box only contains "English".</p>
TR-069/TR-098	<p>#155424 [TR-069] CPE didn't return fault code when server GPV "Device.." on TR-181 data model.</p> <p>#155411 [TR-069] Upload vendor log to file server fail.</p> <p>#155321 [TR-098] TR098 parameter include WLAN/Port forward/IGMP.. Parameter.</p> <p>#155289 [TR-069] ONT parse ACL URL with domain name fail.</p> <p>#155258 [TR-069] ONT shows CWMP fault when it connected to ACS that will cause to the ONT status on ACS show CONFIGURE FAILED.</p>
GPON	<p>#155296 [GPON] The IP_Host WAN can not get IP address if set IP_Host as DHCP by OLT</p> <p>#155153 [GPON] The traffic can not be forwarded if Huawei OLT configure ETH port at index 1.</p> <p>#155150 [GPON] Set VLAN QinQ by Huawei OLT will cause ONT exception.</p>
Others	<p>#155320 [LED] When the firmware upgrade is ongoing, the power LED is Green on. but PS document description is Red blinking</p> <p>#155440 [Remote Mgmt] FTP/SSH via LAN/WAN port will be denied</p>

Modifications in V5.42(ACBF.0)b1

● Feature Enhancement

Modified	Features Enhancement List
----------	---------------------------

Modules	

● **Bug Fixed**

Modified Modules	Bug Fixed List
QoS	1.[#159158][QoS] The strict priority(SP) can not work by upstream and downstream.
IPv6	1.[#155281][IPv6] The IPv6 packet can not pass-through by ONT.