

EX7501-B0_Generic

Firmware Release Note

V5.18(ACHN.2.2)C0

Date: August 22 2025
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Revision History

Date	Release	Author	Description
2023/02/24	1.0	Yuan Lin	FW release for V5.18(ACHN.0)b1
2023/04/28	1.1	Yuan Lin	FW release for V5.18(ACHN.0)b2
2023/06/16	1.2	Yuan Lin	FW release for V5.18(ACHN.0)b3
2023/07/28	1.3	Yuan Lin	FW release for V5.18(ACHN.0)b4
2023/08/11	1.4	Yuan Lin	FW release for V5.18(ACHN.0)b5
2023/09/01	1.5	Yuan Lin	FW release for V5.18(ACHN.0)b6
2023/09/22	1.6	Yuan Lin	FW release for V5.18(ACHN.0)C0
2023/10/19	2.1	Yuan Lin	FW release for V5.18(ACHN.1)b1
2023/12/15	2.2	Yuan Lin	FW release for V5.18(ACHN.1)b2
2024/03/01	2.3	Yuan Lin	FW release for V5.18(ACHN.1)b3
2024/03/29	2.4	Yuan Lin	FW release for V5.18(ACHN.1)b4
2024/04/24	2.5	Yuan Lin	FW release for V5.18(ACHN.1)C0
2024/10/18	3.1	Yuan Lin	FW release for V5.18(ACHN.2)b2
2025/01/03	3.2	Yuan Lin	FW release for V5.18(ACHN.2)b3
2025/02/21	3.3	Yuan Lin	FW release for V5.18(ACHN.2)C0
2025/04/11	4.1	Yuan Lin	FW release for V5.18(ACHN.2.1)b1
2025/04/18	4.2	Yuan Lin	FW release for V5.18(ACHN.2.1)C0
2025/08/22	5.1	Yuan Lin	FW release for V5.18(ACHN.2.2)b1
2025/08/22	5.2	Yuan Lin	FW release for V5.18(ACHN.2.2)C0

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Supported Platforms:

Zyxel EX7501-B0

Versions:

Bootbase version : V2.4 | 12/15/2023 16:09:13

Firmware version : V5.18(ACHN.2.2)C0

Kernel version: 4.19.183

WLAN code version: 17.10.188.75

3G WWAN package version: 1.26

Notes:

Linux console:

uname -a

wl ver

wwanpackage info

Public Domain Software Announcements

Open Source Used In Product	Version	From (Source)	License Terms	Modified / Used
attr	2.5.1	http://savannah.nongnu.org/projects/attr	GPL-2.0-only	Used
atftp	0.8.0	https://sourceforge.net/projects/atftp/	GPL-2.0-only	Modified
Bridge-Utils	1.7.1	http://bridge.sourceforge.net	GPL-2.0-only	Used
BusyBox	1.31.1	http://www.busybox.net/	GPL-2.0-only	Modified
clinkc	2.4	http://sourceforge.net/projects/clinkc/	BSD-3-Clause	Modified
conntrack- tools	1.4.5	https://git.netfilter.org/conntrack-tools/	GPL-2.0-only	Used
dnsmasq	2.85	http://www.thekelleys.org.uk/dnsmasq/doc.html	GPL-2.0-only	Modified
dropbear	2024.85	http://matt.ucc.asn.au/dropbear/dropbear.html	MIT	Modified
ebtables	2.0.10-4	http://ebtables.sourceforge.net	GPL-2.0-only	Modified
eventlog	0.2.10	http://git.balabit.hu/?p=bazsi/eventlog-1.0.git;a=summary	BSD-3-Clause	Used
expat	2.7.1	http://expat.sourceforge.net/	MIT	Used
ez-ipupdate	3.0.11b8	http://ez-ipupdate.com/	GPL-2.0-only	Used
gettext	0.19.8.1	http://www.gnu.org/software/gettext/	GPL-2.0-only	Used
Glib	2.68.1	http://www.gtk.org/	LGPL-2.0-only	Used
iproute2	2.5.7.0	http://repository.timesys.com/buildsources/i/iproute2/	GPL-2.0-only	Modified
iptables	1.8.5	http://www.netfilter.org	GPL-2.0-only	Modified
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-3-Clause	Modified
libffi	3.3	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/	LGPL-2.0-only	Modified
libnetfilter_co nntrack	1.0.7	https://git.netfilter.org/libnetfilter_conntrack/	GPL-2.0-only	Used
libnetfilter_qu eue	1.0.3	http://www.netfilter.org/projects/libnetfilter_queue/	GPL-2.0-only	Used

libnfnethlink	1.0.1	http://www.netfilter.org/projects/libnetfilter_queue/	GPL-2.0-only	Used
libpcap	1.9.1	www.tcpdump.org	BSD-3-Clause	Used
libtool	2.4.6	http://www.gnu.org/software/libtool/	GPL-2.0-only	Used
libusb	1.0.9	http://www.libusb.org/	LGPL-2.1-only	Used
libxml2	2.9.12	http://xmlsoft.org/sources/	MIT	Used
logrotate	3.22.1	https://launchpad.net/ubuntu/hardy/i386/logrotate/	GPL-2.0-only	Modified
mailsend	1.17b15	https://github.com/muquit/mailsend/	BSD-3-Clause	Modified
ncurses	6.1	http://ftp.gnu.org/pub/gnu/ncurses/	MIT	Modified
net-snmp	5.94	http://www.net-snmp.org/	BSD-3-Clause	Modified
ntfs-3g	2022.10.3	http://ntfs-3g.org	GPL-2.0-only	Used
ntpclient	2007_365	http://doolittle.icarus.com/ntpclient/	GPL-2.0-only	Modified
nghttp2	1.57.0	https://osdn.net/projects/immortalwrt/storage/sources/nghttp2-1.43.0.tar.xz/	MIT	Used
openssl	3.2.0	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	GPL-2.0-only	Modified
pure-ftpd	1.0.50	http://pureftpd.org	ISC	Modified
radvd	1.8	http://www.litech.org/radvd/	BSD-3-Clause	Used
readline	8.2	http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html	GPL-2.0-only	Used
samba	3.6.25	http://www.samba.org/samba/	GPL-2.0-only	Modified
Sqlite	3460000	http://www.sqlite.org/	Public-Domain	Used
syslog-ng	4.7.1	http://www.balabit.com/network-security/syslog-ng/	GPL-2.0-only	Used
tcpdump	4.99.4	http://www.tcpdump.org/	BSD-3-Clause	Used
udhcp	0.9.8	http://udhcp.busybox.net/	GPL-2.0-only	Modified
usb-modeswitch	2.1.0	http://www.draisberghof.de/usb_modeswitch/	GPL-2.0-only	Used
WIDE-DHCPv6	20080615	http://wide-dhcpv6.sourceforge.net/	BSD-3-Clause	Modified
miniupnpd	2.3.1	https://github.com/miniupnp/miniupnp	BSD-3-Clause	Used
curl	8.7.1	https://curl.se/	MIT	Modified
quagga	1.2.4	https://github.com/Quagga/quagga	GPL-2.0-only	Used

Known issues

Modules	Issue	Risk Impact Information

[NOTE]

1. OpenSSL 3.1.2 Upgrade Notification

The certificates signed using SHA1 or older/weaker hashes are no longer supported for authenticating servers or clients.

Before upgrading the firmware:

- Please ensure that certificates in your devices are not using weak hashes.
- If weak hashes are detected, kindly update and verify your certificates promptly with stronger hash
(The minimum recommended hash is SHA256)

Modifications in V5.18(ACHN.2.2)C0

● Feature Enhancement

Modified Modules	Features Enhancement List
FCS	Based on V5.18(ACHN.2.2)b1, Change to FCS version

● Bug Fixed

Modified Modules	Bug Fixed List
	N/A

Modifications in V5.18(ACHN.2.2)b1

Based on V5.18(ACHN.2.1)C0 to release V5.18(ACHN.2.2)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
	N/A

● Bug Fixed

Modified	Bug Fixed List
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Modules	
Security	[#239832] [CVE-2024-8176] Zyxel-SI-1605 [Vulnerability] The libexpat open source library is vulnerable to DoS attacks through stack overflow [#239865] [CVE-2025-6599] Zyxel-SI-1616 [Vulnerability] Slow HTTP DoS vulnerability [#239885] [CVE-2025-6599] Zyxel-SI-1621 [Vulnerability] Slow read DoS vulnerability on the zhttpd web server [#239901] [CVE-2025-8693] Zyxel-SI-1624 [Vulnerability] A post-authentication command injection vulnerability in the certificate upload CGI program
GUI	[#239850] Zyxel-SI-1612 Improper privilege management