

EX3600-T0 Generic

Firmware Release Note

V5.70(ACIF.1.1)C0

Date: Mar 07, 2025

Author: Jack Yeh

Reviewer:

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Revision History

Date	Release	Author	Description
2023/06/30	1.0	Frank Chang	FW release for V5.70(ACIF.0)b1
2023/08/21	2.0	Frank Chang	FW release for V5.70(ACIF.0)b2
2023/09/05	3.0	Frank Chang	FW release for V5.70(ACIF.0)b3
2023/09/08	4.0	Frank Chang	FW release for V5.70(ACIF.0)b4
2023/09/19	5.0	Frank Chang	FW release for V5.70(ACIF.0)b5
2023/10/11	6.0	Frank Chang	FW release for V5.70(ACIF.0)b6
2023/10/27	7.0	Frank Chang	FW release for V5.70(ACIF.0)b7
2023/11/03	8.0	Frank Chang	FW release for V5.70(ACIF.0)C0
2023/11/22	9.0	Frank Chang	FW release for V5.70(ACIF.0.1)b1
2023/11/24	10.0	Frank Chang	FW release for V5.70(ACIF.0.1)C0
2024/05/27	11.0	Frank Chang	FW release for V5.70(ACIF.0.2)b1
2024/05/28	12.0	Frank Chang	FW release for V5.70(ACIF.0.2)C0
2024/07/04	13.0	Frank Chang	FW release for V5.70(ACIF.0.3)b1
2024/07/10	14.0	Frank Chang	FW release for V5.70(ACIF.0.3)C0
2024/11/01	15.0	Jack Yeh	FW release for V5.70(ACIF.1)b2
2025/01/10	16.0	Jack Yeh	FW release for V5.70(ACIF.1)b3
2025/02/21	17.0	Jack Yeh	FW release for V5.70(ACIF.1)C0
2025/03/07	18.0	Jack Yeh	FW release for V5.70(ACIF.1.1)b1
2025/03/07	19.0	Jack Yeh	FW release for V5.70(ACIF.1.1)C0

EX3600-T0 Generic V5.70(ACIF.1.1)C0 Release Note

Date: Mar 07, 2025

Supported Platforms:

Zyxel EX3600-T0 Generic

Versions:

Bootbase version : V3.0 | 10/30/2024 14:46:12

Firmware version : V5.70(ACIF.1.1)C0

Kernel version: 5.4.171

WLAN code version: 7.6.2.5

3G WWAN package version: 1.26

Notes:

Public Domain Software Announcements

Open Source Used (3rd party software)	Version	From (Source)	Licensing Term	Modified / Used
alsa-lib	1.2.4	https://ftp.osuosl.org/pub/blfs/conglomeration/alsa-lib/alsa-lib-1.2.4.tar.bz2	GPL-2.1-only	Used
alsa-ucm-conf	1.2.4	https://www.alsa-project.org/files/pub/lib/alsa-ucm-conf-1.2.4.tar.bz2	BSD-3-clause-clear	Used
alsa-utils	1.2.4	https://ftp.osuosl.org/pub/blfs/conglomeration/alsa-utils/alsa-utils-1.2.4.tar.bz2	GPL-2.0-only	Used
argp-standalone	1.3	http://sources.buildroot.net/argp-standalone/argp-standalone-1.3.tar.gz	GPL-2.0-only	Used
atftp	0.8.0	https://sourceforge.net/projects/atftp/	GPL-2.0-only	Modified
attr	2.4.48	http://savannah.nongnu.org/projects/attr	GPL-2.0-only	Used
binutils	2.35.1	https://sourceware.org/pub/binutils/releases/	GPL-2.0-only	Used
bridge-utils	1.7	http://www.linuxfromscratch.org/blfs/view/svn/basicnet/bridge-utils.html	GPL-2.0-only	Modified
busybox	1.31.1	https://busybox.net/	GPL-2.0-only	Modified
bwm-ng	0.6.1	http://www.grobb.org/?id=projects&sub=bwm-ng	GPL-2.0-only	Modified
bzip2	1.0.8	http://sources.buildroot.net/bzip2/bzip2-1.0.8.tar.gz	BSD-3-clause	Modified
ca-certificates	20210119	http://ftp.debian.org/debian/pool/main/c/ca-certificates/ca-certificates_20210119.tar.xz	GPL-2.0-only	Used
c-ares	1.30.0	https://c-ares.haxx.se/download	GPL-2.0-only	Modified
cgi-io	2021-09-08-98cef9dd-20	https://firmware.download.immortalwrt.eu.org/package-sources/cgi-io-2021-09-08-98cef9dd.tar.xz	GPL-2.0-or-later	Used
clinkc	2.4	https://sourceforge.net/projects/clinkc/	BSD-3-clause	Modified

			use	ified
conntrack-tools	1.4.6	https://git.netfilter.org/conntrack-tools/	GPL-2.0-only	Used
curl	8.7.1	https://curl.askapache.com/download/	MIT	Modified
Berkeley DB	4.7.25.NC	https://src.fedoraproject.org/lookaside/extras/nss_db/db-4.7.25.NC.tar.gz/073ab7f20d24b3872a51ca762f5090e7/db-4.7.25.NC.tar.gz	Sleepycat	Modified
dnsmasq	2.85	http://www.thekelleys.org.uk/dnsmasq/doc.html	GPL-2.0-only	Modified
dropbear	2024.85	https://github.com/mkj/dropbear	MIT	Modified
ebtables	2018-06-27-48cff25d	https://git.netfilter.org/ebtables/	GPL-2.0-only	Modified
elfutils	0.18	https://fedorahosted.org/elfutils/	GPL-2.0-only	Modified
ethtool	5.1	http://www.kernel.org/pub/software/network/ethtool/	GPL-2.0-only	Used
eventlog	0.2.10	https://github.com/balabit/eventlog	BSD-3-clause	Used
expat	2.6.2	https://github.com/libexpat/libexpat	MIT	Used
ez-ipupdate	3.0.11b8	http://ez-ipupdate.com/	GPL-2.0-only	Modified
ffmpeg	7.1	https://ffmpeg.org/releases/	GPL-2.0-or-later	Modified
flac	1.3.3	https://downloads.xiph.org/releases/flac/	GPL-2.0-only	Modified
fstools	2021-01-04-c53b1882	https://sources.openwrt.org/fstools-2021-01-04-c53b1882.tar.xz	GPL-2.0-only	Modified
fwtool	2019-11-12-8f7fe925	https://openwrt.org/packages/pkgdata/fwtool	GPL-2.0-only	Used
gdbm	1.18.1	https://www.gnu.org/software/gdbm/	GPL-3.0-only	Modified
gettext	0.19.8.1	http://www.gnu.org/software/gettext/	GPL-3.0-only	Used

glib	2.68.4	http://www.gtk.org/	LGPL-2.1 -only	Use d
gmp	6.2.1	http://gmplib.org/	GPL-3.0- or-later	Use d
gnutls	3.8.0	http://www.gnutls.org/	LGPL-2.1 -only	Mod ified
i2c-tools	4.3	https://i2c.wiki.kernel.org/index.php/I2C_Tools	GPL-2.0- only	Use d
iproute2	5.11.0	https://github.com/shemminger/iproute2	GPL-2.0- only	Mod ified
iptables	1.8.7	https://git.netfilter.org/iptables/	GPL-2.0- only	Mod ified
iw	5.9-8fab0c9e	http://wireless.kernel.org/en/users/Documentation/iw	ISC	Mod ified
json-c	0.15	https://github.com/json-c/json-c/downloads	MIT	Mod ified
jsonfilter	2018-02-04-c 7e938d6	http://git.openwrt.org/?p=project/jsonpath.git	ISC	Mod ified
kmod	27	https://www.kernel.org/pub/linux/utils/kernel/kmod/	LGPL-2.1 -only	Use d
lame	3.1	http://sourceforge.net/projects/lame	LGPL-2.0 -only	Use d
libcap	2.43	https://www.kernel.org/pub/linux/libs/security/linux-privs/libcap2/	GPL-2.0- only	Mod ified
libcap-ng	0.8.1	https://people.redhat.com/sgrubb/libcap-ng/index.html	GPL-2.0- only	Use d
libdbi	0.9.0	http://libdbi.sourceforge.net/	LGPL-2.1 -only	Use d
libedit	20210419-3. 1	http://pkgs.fedoraproject.org/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz/	BSD-3-cla use	Mod ified
libexif	0.6.22	https://libexif.github.io/	LGPL-2.1 -only	Mod ified
libffi	3.3	http://pkgs.fedoraproject.org/repo/pkgs/libffi/libffi-3.0.11.tar.gz/	MIT	Use d
libgcrypt	1.8.7	https://www.gnupg.org/related_software/libgcrypt/	GPL-2.0-	Use

			only	d
libgpg-error	1.42	https://www.gnupg.org/related_software/libgpg-error/	GPL-2.0-only	Modified
libgpod	1.4.4	https://git.kernel.org/pub/scm/libs/libgpod/libgpod.git	LGPL-2.1-only	Used
libiconv	1.16	https://ftp.gnu.org/gnu/libiconv/libiconv-1.16.tar.gz	LGPL-2.1-only	Modified
libid3tag	0.15.1b	http://mad.sourceforge.net/	GPL-2.0-only	Used
libjpeg-turbo	2.0.6	https://www.libjpeg-turbo.org/	BSD-3-clause	Used
libmnl	1.0.4	http://www.netfilter.org/projects/libmnl/	LGPL-2.1-or-later	Modified
libnetfilter_conntrack	1.0.8	https://git.netfilter.org/libnetfilter_conntrack/	GPL-2.0-only	Used
libnetfilter_cthelper	1.0.0	http://www.netfilter.org/projects/libnetfilter_cthelper/	GPL-2.0-only	Used
libnetfilter_cttimeout	1.0.0	http://www.netfilter.org/projects/libnetfilter_cttimeout/	GPL-2.0-only	Used
libnetfilter_queue	1.0.5	https://git.netfilter.org/libnetfilter_queue/	GPL-2.0-only	Used
libnftnl	1.0.1	https://git.netfilter.org/libnftnl/	GPL-2.0-or-later	Used
libnl	3.5.0	http://www.infradead.org/~tgr/libnl/	LGPL-2.1-only	Modified
libnl-tiny	2020-08-05-c291088f	https://github.com/openwrt/openwrt/tree/master/package/libs/libnl-tiny	LGPL-2.1-only	Modified
libogg	1.3.4	https://downloads.xiph.org/releases/ogg/	BSD-3-clause	Used
libpcap	1.9.1	www.tcpdump.org	BSD-3-clause	Used
libselenium	3.2	https://github.com/SELinuxProject/selinux/releases/download/3.2	public-domain	Used
libsepol	3.2	https://github.com/SELinuxProject/selinux/releases/download/3.2	LGPL-2.1-only	Used

libsrtp	1.6.0	http://oss.metaparadigm.com/json-c/	BSD-3-cla use	Mod ified
libstrophe	0.12.2	https://codeload.github.com/strophe/libstrophe/tar.gz/	MIT	Mod ified
libtirpc	1.3.2	http://libtirpc.sourceforge.net/	BSD-3-cla use	Mod ified
libtool	2.4.6	http://www.gnu.org/software/libtool/	GPL-2.0- only	Use d
libubox	2021-05-16- b14c4688	http://mirror.greenwavereality.com/openwrt/	ISC	Use d
libusb	1.0.24	https://sourceforge.net/projects/libusb/	LGPL-2.1 -only	Use d
libvorbis	1.3.7	http://downloads.xiph.org/releases/vorbis/	BSD-3-cla use	Use d
libxml2	2.9.12	http://xmlsoft.org/sources/	MIT	Use d
Linux/Arm Kernel	5.4.171	http://ftp.ntu.edu.tw/pub/linux/kernel/v5.x/	GPL-2.0- only	Mod ified
logrotate	3.22.0	https://launchpad.net/ubuntu/hardy/i386/logrotate/	GPL-2.0- only	Mod ified
lua	5.1.5	http://www.tecgraf.puc-rio.br/lua/ftp/	MIT	Mod ified
lua	5.3.5	http://www.tecgraf.puc-rio.br/lua/ftp/	MIT	Mod ified
luasocket	2019-04-21- 733af884	https://github.com/diegonehab/luasocket	MIT	Mod ified
lucihttp	2021-06-11-3 dc89af4	https://github.com/jow-/lucihttp.git	MIT	Use d
lxc	2.0.4	https://linuxcontainers.org/lxc/downloads/	GPL-2.0- only	Mod ified
mailsend	1.19	https://github.com/muquit/mailsend/	BSD-3-cla use	Mod ified
mbedtls	2.16.11	https://codeload.github.com/ARMmbed/mbedtls/tar.gz/v2.16.11	GPL-2.0- only	Mod ified
minidlna	1.3.0	https://sourceforge.net/projects/minidlna/files/minidlna/1.3.0/	GPL-2.0-	Mod

			only	ified
musl-fts	1.2.7	https://github.com/pullmoll/musl-fts.git	BSD-3-cla use	Use d
nbtscan	1.7.2	http://ftp.debian.org/debian/pool/main/n/nbtscan/	GPL-2.0- only	Use d
ncurses	6.2	http://ftp.gnu.org/pub/gnu/ncurses/	MIT	Mod ified
net-snmp	5.9.4	http://www.net-snmp.org/	BSD-3-cla use	Mod ified
nettle	3.9.1	https://ftp.gnu.org/gnu/nettle/	GPL-2.0- only	Mod ified
nghttp2	1.57.0	https://osdn.net/projects/immortalwrt/storage/sources/nghttp2-1.43.0.tar.xz/	MIT	Use d
ntfs-3g	2022.10.3	http://ntfs-3g.org	GPL-2.0- only	Use d
ntpclient	2015_365	http://doolittle.icarus.com/ntpclient/	GPL-2.0- or-later	Mod ified
omcproxy	2018-12-14- 722151f0	https://osdn.net/projects/immortalwrt/storage/sources/omcproxy-2018-12-14-722151f0.tar.xz/	apache-2. 0	Mod ified
openssl	3.2.0	http://www.openssl.org	OpenSSL	Mod ified
pciutils	3.7.0	https://github.com/yifengyou/pciutils-3.7.0	GPL-2.0- only	Mod ified
pcre	8.44	https://sourceforge.net/projects/pcre/files/pcre/8.44/	BSD-3-cla use	Use d
pcre2	10.44	https://www.linuxfromscratch.org/blfs/view/systemd/general/pcre2.html	BSD-3-cla use	Mod ified
popt	1.16	http://rpm5.org/files/popt/	MIT	Mod ified
ppp	2.4.3	http://www.roaringpenguin.com/pppoe	GPL-2.0- only	Mod ified
pptp	1.7.1	https://sourceforge.net/projects/pptpclient/files/pptp/pptp-1.7.1/	GPL-2.0- only	Use d
procd	2021-02-23- 37eed131	https://downloads.openwrt.org/releases/21.02.1/targets/arc770/generic/openwrt-21.02.1-arc770-generic-default.manifest	LGPL-2.1 -only	Mod ified

pure-ftpd	1.0.50	http://pureftpd.org	BSD-3-cla use	Mod ified
radvd	1.8	http://www.litech.org/radvd/	BSD-3-cla use	Use d
readline	8.2	http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html	GPL-3.0- only	Use d
resolveip	2	https://github.com/openwrt/openwrt/tree/openwrt-21.02/package/network/utils/resolveip	GPL-2.0- only	Use d
rp-pppoe	3.14	https://dianne.skoll.ca/projects/rp-pppoe/download	GPL-2.0- only	Mod ified
samba	3.6.25	https://download.samba.org/pub/samba/samba-3.6.25.tar.gz	GPL-3.0- only	Mod ified
sqlite	3460000	http://www.sqlite.org/	public-do main	Use d
swconfig	12	https://github.com/openwrt-mirror/openwrt/blob/master/target/linux/generic/files/drivers/net/phy/swconfig.c	GPL-2.0- only	Use d
syslog-ng	4.7.1	https://github.com/balabit/syslog-ng	GPL-2.0- only	Use d
tcpdump	4.99.4	http://www.tcpdump.org/	BSD-3-cla use	Use d
u-boot	2021.01	https://source.denx.de/u-boot/u-boot	GPL-2.0- only	Use d
ubox	2020-10-25- 9ef88681	https://git.openwrt.org/project/ubox.git	GPL-2.0- only	Use d
ubus	2021-06-30- 4fc532c8	https://git.openwrt.org/?p=project/ubus.git;a=shortlog	LGPL-2.1 -only	Use d
uci	2020-10-06- 52bbc99f	https://git.openwrt.org/project/uci.git	LGPL-2.1 -only	Use d
uclient	2021-05-14- 6a6011df	https://git.openwrt.org/project/uclient.git	ISC	Use d
udhcp	0.9.8	http://udhcp.busybox.net/	GPL-2.0- only	Mod ified
unbound	1.14.0	https://nlnetlabs.nl/downloads/unbound/	BSD-3-cla use	Mod ified
urandom-s	3	https://github.com/ntl9t/openwrt-1/blob/master/package/system/urando	GPL-2.0-	Use

eed		m-seed/files/etc/init.d/urandom_seed	only	d
urngd	2020-01-21-c7f7b6b6	http://mirror.greenwavereality.com/openwrt/	GPL-2.0-only	Used
usb-modeswitch	2.1.0	http://www.draisberghof.de/usb_modeswitch/	GPL-2.0-only	Used
usign	2020-05-23-f1f65026	https://download.iopsys.eu/iopsys/mirror/usign-2020-05-23-f1f65026.tar.xz	ISC	Used
ustream-ssl	2020-12-10-68d09243	https://github.com/KoWming/Openwrt-LEDE-dl/blob/main/ustream-ssl-2020-12-10-68d09243.tar.xz	ISC	Used
util-linux	2.36.1	https://github.com/karelzak/util-linux/	GPL-2.0-only	Used
vim	9	http://ftp.vim.org/pub/vim/unix	GPL-2.0-only	Modified
wide-dhcpv6	20080615	https://sourceforge.net/projects/wide-dhcpv6/	BSD-3-clause	Modified
wireless-regdb	2021.08.28	https://git.kernel.org/pub/scm/linux/kernel/git/sforshee/wireless-regdb.git/	ISC	Modified
wireless-tools	29	https://hewlettpackard.github.io/wireless-tools	GPL-2.0-only	Modified
wolfssl	4.8.1-stable	http://www.wolfssl.com/	GPL-2.0-only	Modified
wsdd2	2021-08-09-bcc51c3e	https://github.com/Netgear/wsdd2	GPL-3.0-only	Used
xl2tpd	1.3.16	https://github.com/xelerance/xl2tpd.git	GPL-2.0-only	Modified
xz	5.2.5	https://tukaani.org/xz	GPL-2.0-only	Modified
zlib	1.3.1	https://github.com/madler/zlib	zlib	Used
zoneinfo	2021a	https://www.iana.org/time-zones/repository/releases/tzcode2021a.tar.gz	BSD-3-clause	Modified
quagga	1.2.4	https://www.iana.org/time-zones/repository/releases/tzdata2021a.tar.gz	GPLv2	Used

Known issues

Modules	Issue	Risk Impact Information

Notification

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 5.70(ACIF.1.1)C0

Based on V5.70(ACIF.1.1)b1 to release V5.70(ACIF.1.1)C0

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.70(ACIF.1.1)b1

Based on V5.70(ACIF.1)C0 to release V5.70(ACIF.1.1)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List