

# **DM4200-B0**

## **Generic**

Firmware Release Note

V5.17(ACBS.1.2)C0

Date: Feb. 17, 2025

Author: CHI-HAO, LO

Reviewer:

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## Revision History

Date	Release	Author	Description
2021/09/03	1.0	Yen-Chun, Lin	FW release for V5.17(ACBS.0)b1
2021/11/04	2.0	Yen-Chun, Lin	FW release for V5.17(ACBS.0)b2
2022/10/28	3.0	Yen-Chun, Lin	FW release for V5.17(ACBS.0)C0
2023/12/27	4.0	Yen-Chun, Lin	FW release for V5.17(ACBS.1)b1
2024/03/01	5.0	CHI-HAO, LO	FW release for V5.17(ACBS.1)b2
2024/03/27	6.0	CHI-HAO, LO	FW release for V5.17(ACBS.1)b3
2024/05/24	7.0	CHI-HAO, LO	FW release for V5.17(ACBS.1)b4
2024/08/09	8.0	CHI-HAO, LO	FW release for V5.17(ACBS.1)b5
2024/10/04	9.0	CHI-HAO, LO	FW release for V5.17(ACBS.1)b6
2024/11/08	10.0	CHI-HAO, LO	FW release for V5.17(ACBS.1)b7
2024/11/08	10.0	CHI-HAO, LO	FW release for V5.17(ACBS.1)C0
2025/02/05	11.0	CHI-HAO, LO	FW release for V5.17(ACBS.1.1)b1
2025/02/05	12.0	CHI-HAO, LO	FW release for V5.17(ACBS.1.1)C0
2025/02/17	13.0	CHI-HAO, LO	FW release for V5.17(ACBS.1.2)b1
2025/02/17	14.0	CHI-HAO, LO	FW release for V5.17(ACBS.1.2)C0

## **DM4200-B0 Generic V5.17(ACBS.1.2)C0 Release Note**

Date: Feb. 17, 2025

### **Supported Platforms:**

Zyxel DM4200-B0

### **Versions:**

Bootbase version : V1.59 | 03/22/2024 19:03:29

Firmware version : V5.17(ACBS.1.2)C0

Kernel version: 4.1.52

DSL modem code version: A2pvfbK048i

DSL driver version: . d28c(A2x028c)

# xdslctl --version

xdslctl version 1.2

ADSL PHY: AnnexA version - A2pvfbK048i.d28c

### **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-Utils	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	1.0.0	<a href="https://git.netfilter.org/conntrack-tools/">https://git.netfilter.org/conntrack-tools/</a>	GPLv2	Used
dnsmasq	2.78	<a href="http://www.thekelleys.org.uk/dnsmasq/doc.html">http://www.thekelleys.org.uk/dnsmasq/doc.html</a>	GPLv2/GPLv3	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	0.16.1	<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
jpegsrcc	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_conntrack	1.0.4	<a href="https://git.netfilter.org/libnetfilter_conntrack/">https://git.netfilter.org/libnetfilter_conntrack/</a>	GPLv2	Used
libnetfilter_queue	1.0.2	<a href="https://git.netfilter.org/libnetfilter_queue/">https://git.netfilter.org/libnetfilter_queue/</a>	GPLv2	Used
libnftnl	1.0.1	<a href="https://git.netfilter.org/libnftnl/">https://git.netfilter.org/libnftnl/</a>	GPLv2	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
Linux/MIPS Kernel	4.1.52	<a href="http://www.linux-mips.org">http://www.linux-mips.org</a>	GPLv2	Modified
logrotate	3.7.1	<a href="https://launchpad.net/ubuntu/hardy/i386/logrotate/">https://launchpad.net/ubuntu/hardy/i386/logrotate/</a>	GPLv2	Modified
ncurses	5.7	<a href="http://ftp.gnu.org/pub/gnu/ncurses/">http://ftp.gnu.org/pub/gnu/ncurses/</a>	MIT	Modified
ntpclient	2007_365	<a href="http://doolittle.icarus.com/ntpclient/">http://doolittle.icarus.com/ntpclient/</a>	GPLv2	Modified
openssl	3.1.2	<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>	GPLv3	Used
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
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 V5.17(ACBS.1.2)C0

Based on V5.17(ACBS.1.2)b1 to FCS V5.17(ACBS.1.2)C0

### ● Feature Enhancement

Modified Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List

## Modifications in V5.17(ACBS.1.2)b1

Based on V5.17(ACBS.1.1)C0 to release V5.17(ACBS.1.2)b1

### ● Feature Enhancement

Modified Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List

## Modifications in V5.17(ACBS.1.1)C0

Based on V5.17(ACBS.1.1)b1 FCS V5.17(ACBS.1.1)C0

### ● Feature Enhancement

Modified	Features Enhancement List
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Modules	

- **Bug Fixed**

Modified Modules	Bug Fixed List

## Modifications in V5.17(ACBS.1.1)b1

Based on V5.17(ACBS.1)C0 to release V5.17(ACBS.1.1)b1

- **Feature Enhancement**

Modified Modules	Features Enhancement List

- **Bug Fixed**

Modified Modules	Bug Fixed List
Security	Zyxel-SI-1589 [Vulnerability] Post-authentication command injection vulnerability in the "DNSSever" parameter

## Modifications in V5.17(ACBS.1)C0

Based on V5.17(ACBS.1)b7 FCS V5.17(ACBS.1)C0

- **Feature Enhancement**

Modified Modules	Features Enhancement List

- **Bug Fixed**

Modified Modules	Bug Fixed List

## Modifications in V5.17(ACBS.1)b7

Based on V5.17(ACBS.1)b6 to release V5.17(ACBS.1)b7



- Feature Enhancement

Modified Modules	Features Enhancement List

- Bug Fixed

Modified Modules	Bug Fixed List

## Modifications in V5.17(ACBS.1)b6

Based on V5.17(ACBS.1)b5 to release V5.17(ACBS.1)b6

- Feature Enhancement

Modified Modules	Features Enhancement List

- Bug Fixed

Modified Modules	Bug Fixed List
Security	[CVE-2024-8748] [Zyxel-SI-1576] [Vulnerability] Unauthenticated buffer overflow in VMG8825-T50
	[Vulnerability] Zyxel-SI-1536 [Vulnerability] Buffer overflow vulnerability in the "traceroute" command of DX3300-T1 CPE
	[CVE-2024-5412][Zyxel-SI-1557][Vulnerability] Unauthenticated heap buffer overflow in the libclinkc library.
	[eITS#240600626] [Mantis-7311] Vulnerability - Zyxel SI-1559

## Modifications in V5.17(ACBS.1)b5

Based on V5.17(ACBS.1)b4 to release V5.17(ACBS.1)b5

- Feature Enhancement

Modified Modules	Features Enhancement List
GUI	[eITS#240701931]Remove Quick Start Wizard from DM4200-B0

- **Bug Fixed**

Modified Modules	Bug Fixed List

## Modifications in V5.17(ACBS.1)b4

Based on V5.17(ACBS.1)b3 to release V5.17(ACBS.1)b4

- **Feature Enhancement**

Modified Modules	Features Enhancement List

- **Bug Fixed**

Modified Modules	Bug Fixed List

## Modifications in V5.17(ACBS.1)b3

Based on V5.17(ACBS.1)b2 to release V5.17(ACBS.1)b3

- **Feature Enhancement**

Modified Modules	Features Enhancement List

- **Bug Fixed**

Modified Modules	Bug Fixed List

## Modifications in V5.17(ACBS.1)b2

Based on V5.17(ACBS.1)b1 to release V5.17(ACBS.1)b2

- **Feature Enhancement**

Modified Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List
GUI	[eITS#240100823][A1] Privilege can't be change

## Modifications in V5.17(ACBS.1)b1

Based on V5.17(ACBS.0)C0 to release V5.17(ACBS.1)b1

### ● Feature Enhancement

Modified Modules	Features Enhancement List
WAN	1. [eITS#231000511] WAN interface with VLAN 33 used for TR069 MGMT and bridge for TR069 MGMT for the CPE.
Security	1. [Vulnerability] Infinite loop in BN_mod_sqrt() of OpenSSL when parsing certificates

### ● Bug Fixed

Modified Modules	Bug Fixed List
Security	<ol style="list-style-type: none"> <li>1. [Vulnerability][Generic] cleartext storage of sensitive information vulnerability</li> <li>2. Zyxel-SI-1433 [CVE-2022-43389,43390,43391,43392] [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability</li> <li>3. [eITS#230500907] Possible security flaw that allows to retrieve root password</li> <li>4. [Vulnerability] Zyxel-SI-1506 [Vulnerability] Post-authentication buffer overflow in VMG3625-T50B</li> <li>5. [CVE-2022-4203,4304,4450][CVE-2023-0215~0217,0286,0401][Zyxel-SI-1464] [Vulnerability] OpenSSL multiple vulnerabilities</li> </ol>

## Modifications in V5.17(ACBS.0)C0

Based on V5.17(ACBS.0)b2 to release V5.17(ACBS.0)C0

## Modifications in V5.17(ACBS.0)b2

1. Firmware release, the FW based on V5.17(ACBS.0)b1

### ● Feature Enhancement

Modified Modules	Features Enhancement List
VDSL PHY	1. [VDSL PHY]BROADCOM suggested that update PHY code version to A2pvfbK047h.

### ● Bug Fixed

Modified Modules	Bug Fixed List
TR-143	1. [TR-069] TR- 143 download/Upload diagnostic Complete not send 8 DIAGNOSTICS COMPLETE to ACS 2. [TR-143]Upload diagnostic (HTTP), check the file is uploaded to file server, the file server has five files.
QoS	1. [QoS] Add New Queue occur call trace and reboot

## Modifications in V5.17(ACBS.0)b1

The first version for DM4200-B0

### ● Feature Enhancement

Modified Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List