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WM-BN-BM-26_A WiFi+BT Module User Manual

PWN: 802.11b/g/n + BT Wireless LAN Module

FVIN: 7.10.324.2

Applicable Model No.: WM-BN-BM-26_A, WM-BN-BM-26_A_FF, WM-BN-BM-26_A_FF2,
WM-BN-BM-26_A_FF3, WM-BN-BM-26_A_FF4



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The WM-BN-BM-26_A module complies with the following features and standards;

Features	Description
WLAN Standards	IEEE 802 Part 11b/g/n (802.11b/g/n)
Bluetooth	Bluetooth™ 4.1 compliance
Antenna Port	Support Single-Band Antenna Shared between Wi-Fi and BT
WLAN Frequency Band	2412~2472MHz
Bluetooth Frequency Band	2402~2480MHz

Power supply for the WM-BN-BM-26_A module will be provided by the host via the power pins

Symbol	Parameter	Min	Typ.	Max	Unit
VABT	DC supply voltage for VBAT	3.2	3.6	3.9	V
VDDIO	DC supply voltage for digital I/O	1.71	1.8 3.3	3.63	V



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WiFi User Guide

User SIDO interface in PC/NB to control WM-BN-BM-26_A

- 1) power supply 3.7V
- 2) NB HP331
- 3) Linux OS (USB3.0 dongle)
- 4) Dmesg → check this device is recognized

```
root@enc:/home/enc# dmesg
[ 1482.480500] psmouse serio1: TouchPad at isa0060/serio1/lnput0 lost sync at by
te 1
[ 1482.491712] psmouse serio1: TouchPad at isa0060/serio1/lnput0 - driver resync
ed.
[ 1787.022449] psmouse serio1: TouchPad at isa0060/serio1/lnput0 lost sync at by
te 4
[ 1787.023736] psmouse serio1: TouchPad at isa0060/serio1/lnput0 - driver resync
ed.
[ 1787.032475] psmouse serio1: TouchPad at isa0060/serio1/lnput0 - driver resync
ed.
[ 1896.524588] mmc0: queuing unknown CIS tuple 0x80 (2 bytes)
[ 1896.527272] mmc0: queuing unknown CIS tuple 0x80 (3 bytes)
[ 1896.529713] mmc0: queuing unknown CIS tuple 0x80 (3 bytes)
[ 1896.534086] mmc0: queuing unknown CIS tuple 0x80 (7 bytes)
[ 1896.541356] mmc0: queuing unknown CIS tuple 0x80 (13 bytes)
[ 1896.695582] mmc0: error -110 whilst inttalling SDIO card
[ 1922.064698] mmc0: queuing unknown CIS tuple 0x80 (2 bytes)
[ 1922.067391] mmc0: queuing unknown CIS tuple 0x80 (3 bytes)
[ 1922.069986] mmc0: queuing unknown CIS tuple 0x80 (3 bytes)
[ 1922.074917] mmc0: queuing unknown CIS tuple 0x80 (7 bytes)
[ 1922.082362] mmc0: queuing unknown CIS tuple 0x80 (13 bytes)
[ 1922.274362] mmc0: new SDIO card at address 0001
root@enc:/home/enc#
```

- 5) Ctrl+Alt+T → Call out terminal window
- 6) sudo su → password:enc
- 7) cd Desktop/bm26 → Enter this file → bm26

```
enc@enc:~$ sudo su
[sudo] password for enc:
root@enc:/home/enc#
root@enc:/home/enc#
root@enc:/home/enc# cd Desktop/bm26
root@enc:/home/enc/Desktop/bm26#
```

- 8) ls -l → show each document in bm26

```
root@enc:/home/enc/Desktop/bm26# ls -l
total 3928
-rw-r--r-- 1 enc enc 1243 Apr 28 2015 bcm94330wlpth_ust_bm26a_20150421.tx
t
-rw-r--r-- 1 enc enc 607077 Apr 26 2015 bcndhd_wd_dbg_wd_en.1.88.64.ko
-rw-r--r-- 1 enc enc 310271 Apr 26 2015 BM-26_A1.bin
-rwxr-xr-x 1 root root 199 Nov 7 05:15 lns_rfg.sh
-rwxr-xr-x 1 enc enc 185 Nov 7 05:14 lns_user.sh
-rwxr-xr-x 1 enc enc 319 Nov 9 14:42 rx.sh
-rw-r--r-- 1 enc enc 318 Nov 9 14:41 rx.sh-
-rw-r--r-- 1 enc enc 326834 Apr 28 2015 sdlo-g_mfgtest_seqcmds.bin
-rwxr-xr-x 1 enc enc 316 Nov 9 14:49 tx.sh
-rwxr-xr-x 1 enc enc 316 Nov 9 14:42 tx.sh-
-rwxr-xr-x 1 root root 1821033 Nov 7 05:19 wl
root@enc:/home/enc/Desktop/bm26#
```




- 9) ./ins.user.sh → the module –user mode on
It will show version. FWID...if the module turn on successfully.

```
root@emc: /home/emc/Desktop/bm26
[ 809.464364] mmc0: card 0001 removed
[ 839.047457] mmc0: queuing unknown CIS tuple 0x80 (2 bytes)
[ 839.049902] mmc0: queuing unknown CIS tuple 0x80 (3 bytes)
[ 839.052307] mmc0: queuing unknown CIS tuple 0x80 (3 bytes)
[ 839.056635] mmc0: queuing unknown CIS tuple 0x80 (7 bytes)
[ 839.064288] mmc0: queuing unknown CIS tuple 0x80 (13 bytes)
[ 839.266277] mmc0: new SDIO card at address 0001
root@emc:/home/emc# cd Desktop/bm26
root@emc:/home/emc/Desktop/bm26# ls -l
total 3032
-rw-r--r-- 1 emc emc 1243 Apr 28 2015 bcm943438wlpth_usi_bm26a_20150421.tx
t
-rw-r--r-- 1 emc emc 607077 Apr 26 2015 bcmhdh_wo_dbg_wo_en.1.88.64.ko
-rw-r--r-- 1 emc emc 310271 Apr 26 2015 BM-26_A1.bin
-rwxr-xr-x 1 root root 199 Nov 7 2015 ins_mfg.sh
-rwxrwxrwx 1 emc emc 184 Nov 18 2015 ins_user.sh
-rwxrwxrwx 1 emc emc 185 Nov 7 2015 ins_user.sh~
-rwxrwxrwx 1 emc emc 319 Nov 9 2015 rx.sh
-rw-rw-r-- 1 emc emc 318 Nov 9 2015 rx.sh~
-rw-r--r-- 1 emc emc 326834 Apr 28 2015 sdio-g-mfgtest-seqcnds.bin
-rwxrwxrwx 1 emc emc 316 Nov 9 2015 tx.sh
-rwxrwxrwx 1 emc emc 316 Nov 9 2015 tx.sh~
-rwxrwxrwx 1 root root 1821033 Nov 7 2015 wl
root@emc:/home/emc/Desktop/bm26# ./ins_user.sh
```

```
root@emc: /home/emc/Desktop/bm26
[ 839.052307] mmc0: queuing unknown CIS tuple 0x80 (3 bytes)
[ 839.056635] mmc0: queuing unknown CIS tuple 0x80 (7 bytes)
[ 839.064288] mmc0: queuing unknown CIS tuple 0x80 (13 bytes)
[ 839.266277] mmc0: new SDIO card at address 0001
root@emc:/home/emc# cd Desktop/bm26
root@emc:/home/emc/Desktop/bm26# ls -l
total 3032
-rw-r--r-- 1 emc emc 1243 Apr 28 2015 bcm943438wlpth_usi_bm26a_20150421.tx
t
-rw-r--r-- 1 emc emc 607077 Apr 26 2015 bcmhdh_wo_dbg_wo_en.1.88.64.ko
-rw-r--r-- 1 emc emc 310271 Apr 26 2015 BM-26_A1.bin
-rwxr-xr-x 1 root root 199 Nov 7 2015 ins_mfg.sh
-rwxrwxrwx 1 emc emc 184 Nov 18 2015 ins_user.sh
-rwxrwxrwx 1 emc emc 185 Nov 7 2015 ins_user.sh~
-rwxrwxrwx 1 emc emc 319 Nov 9 2015 rx.sh
-rw-rw-r-- 1 emc emc 318 Nov 9 2015 rx.sh~
-rw-r--r-- 1 emc emc 326834 Apr 28 2015 sdio-g-mfgtest-seqcnds.bin
-rwxrwxrwx 1 emc emc 316 Nov 9 2015 tx.sh
-rwxrwxrwx 1 emc emc 316 Nov 9 2015 tx.sh~
-rwxrwxrwx 1 root root 1821033 Nov 7 2015 wl
root@emc:/home/emc/Desktop/bm26# ./ins_user.sh
. 363 RC59.22
il0: Jan 13 2015 19:40:05 version 7.10.324.2 (r526366) FWID 01-33578c66
root@emc:/home/emc/Desktop/bm26#
```




- 10) ifconfig → it will show all available network connections in this computer
(usi0 is bm26 module)

```
root@emc: /home/emc/Desktop/bm26
[ 839.052307] mmc0: queuing unknown CIS tuple 0x80 (3 bytes)
[ 839.056635] mmc0: queuing unknown CIS tuple 0x80 (7 bytes)
[ 839.064288] mmc0: queuing unknown CIS tuple 0x80 (13 bytes)
[ 839.266277] mmc0: new SDIO card at address 0001
root@emc:/home/emc# cd Desktop/bm26
root@emc:/home/emc/Desktop/bm26# ls -l
total 3032
-rw-r--r-- 1 emc emc 1243 Apr 28 2015 bcm943438wlpth_usi_bm26a_20150421.tx
t
-rw-r--r-- 1 emc emc 607077 Apr 26 2015 bcmhd_wo_dbg_wo_en.1.88.64.ko
-rw-r--r-- 1 emc emc 310271 Apr 26 2015 BM-26_A1.bin
-rwxr-xr-x 1 root root 199 Nov 7 2015 ins_mfg.sh
-rwxrwxrwx 1 emc emc 184 Nov 18 2015 ins_user.sh
-rwxrwxrwx 1 emc emc 185 Nov 7 2015 ins_user.sh~
-rwxrwxrwx 1 emc emc 319 Nov 9 2015 rx.sh
-rw-rw-r-- 1 emc emc 318 Nov 9 2015 rx.sh~
-rw-r--r-- 1 emc emc 326834 Apr 28 2015 sdlo-g-mfgtest-seqcmds.bin
-rwxrwxrwx 1 emc emc 316 Nov 9 2015 tx.sh
-rwxrwxrwx 1 emc emc 316 Nov 9 2015 tx.sh~
-rwxrwxrwx 1 root root 1821033 Nov 7 2015 wl
root@emc:/home/emc/Desktop/bm26# ./ins_user.sh
1.363 RC59.22
wl0: Jan 13 2015 19:40:05 version 7.10.324.2 (r526366) FWID 01-33578c66
root@emc:/home/emc/Desktop/bm26# ifconfig
```

```
root@emc: /home/emc/Desktop/bm26
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:4 errors:0 dropped:0 overruns:0 frame:0
TX packets:4 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:292 (292.0 B) TX bytes:292 (292.0 B)

usi0 Link encap:Ethernet HWaddr 44:39:c4:d9:e0:b3
inet6 addr: fe80::4639:c4ff:fed9:e0b3/64 Scope:Link
UP BROADCAST MULTICAST MTU:1500 Metric:1
RX packets:68 errors:0 dropped:68 overruns:0 frame:0
TX packets:19 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:26694 (26.6 KB) TX bytes:5365 (5.3 KB)

wlan1 Link encap:Ethernet HWaddr 00:19:d2:ac:7e:2e
UP BROADCAST MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

root@emc:/home/emc/Desktop/bm26#
```