

Home Gateway

Remote, Monitor and Secure Your Home from Anywhere

GWS-HZW1 Quick Installation Guide



Version: V1.0

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Product Introduction

Model

GWS-HZW1



What's in the Box?

- ✓ GWS-HZW1 Home Gateway
- ✓ Power Adapter (12V DC, ASIAN POWER DEVICES INC. WA-24Q12FU) *
- ✓ User Quick Guide

Note: * Only the enclosed adapter can be used to this device.

Installing Micro SIM Card

Steps:

- 1. Locate the SIM card slot.
- 2. Insert the Micro SIM card gently.







Power on your device

Steps:

- 1. Plug the adapter to AC wall outlet.
- 2. Connect the Power adapter to the device.
- 3. Turn the power switch to the ON position.





Note: * LED power indicator in RED, gateway in boot up stage.

Product Feature

Connectivity

LAN port, support WiFi and Bluetooth

Interface

DC-in port, USB port, SIM card slot, reset, LAN port, Debug client port, power switch

Dimensions & Weight

Dimension: 128 × 117 × 38.7 mm Weight: 335 g

Environmental Conditions

Operational temperature range: 0°C to +45°C (32°F to 113°F) Storage temperature range: -20°C to +60°C (-4°F to 140°F)

LED Indicator Behavior



No.	LED	Color	Function
1	Power	Blue/Red	1. Power on => Red 2. Boot up and OS is work- ing => Blue
2	LTE	Blue	Enable => Blue
3	WiFi	Blue	Enable => Blue
4	BLE	Blue	Enable => Blue
5	Zigbee	Blue	Enable => Blue
6	Z-Wave	Blue	Enable => Blue
7	Battery	Blue	1. Charging => Blue 2. Charging complete => off

Using GWS-HZW1

Powering the System

Login as 'root' and then issue a 'poweroff' or 'reboot' command.

```
root@WR-IntelligentDevice:~# poweroff
```

root@WR-IntelligentDevice:~# reboot

Or send ssh remote command to GWS-HZW1.

```
ecs@ecs-IoT:~$ ssh root@192.168.0.1 poweroff
root@192.168.0.1's password:
ecs@ecs-IoT:~$
ecs@ecs_IoT: $ ssh poet@102.168.0.1 poheet
```

```
ecs@ecs-IoT:~$ ssh root@192.168.0.1 reboot
root@192.168.0.1's password:
ecs@ecs-IoT:~$
```

System Login

The system can be accessed and controlled via a Linux shell called 'console' by using micro-USB. The users may invoke Linux commands to configure something in the procedures of the following sections.



If using serial console or terminal emulator, the serial port settings are

Setting	Value
Baud	115200
Parity	No
Data Bit	8
Stop Bit	1
Flow Control	No

When using Secure Shell (or SSH), you can establish the communication through LAN 1 port, which is the RJ45 port right next to the USB port and is assigned with an IP address "192.168.0.1".



Fig 1: the location of LAN 1 port

The login account used here is 'root'.



LAN Configuration

The steps below are used to configure the local area networking (LAN) of GWS-HZW1.

If you use a serial console, you might setup networking by manual. Otherwise the networking is workable.

Step 1. Check the network interfaces by executing the ifconfig command.



Step 2. Activate the network interface (e.g. eth0).

root@WR-IntelligentDevice:~# ifconfig eth0 up

Step 3. If the interface matching failed, please edit /etc/ network/interfaces directly and then either restart the service or reboot the system to make the change effect.

The way to set DHCP connection is as follow:

vi /etc/network/interfaces



The way to set static IP connection is as follow: eth0:0 \rightarrow 192.168.0.1

A 192.100	11-14T	181	×
root9int root9int eth0	Al-guarts-1 diatestrict afformation and an anti-provided and anti-provided and anti- funct addressed 2014/2014/2014/2014/2014/2014/2014/2014/		
eth0:0	Link encapifihernet HNaddr F4:4d:30:c0:1b:43 inet mode:132.360.0.1 Boast:132.360.0.255 Massi255.255.351.0 UP BEAMCAR MONTHS HUITLAST DYNAMIC MTV:1500 Merric:1 Interrupt:13 Mase address(De0500		
10	<pre>Link mongniLocal Inouchaik mant sufar 17:0.0.1 Mask 225.0.0.0 inos6 Madri 11/23 BOopenBoos Dr Loopence Mondina With Coles Messical BX packters1946 mrmssol droppdil 0 versman0 finani0 fX packters1946 mrmssol droppdil 0 versman0 mariner0 collinione10 supermetenc1 MX hypers14544 (133.3.XB) TX bytee:141467 [138.3 KLB)</pre>		
wian0	Link mongpitchernet. NMader 2n-dH/19(2)47:45 Neme dddril(2)46.100;108 (Describ():48.07.05 (NaW1720.25.0.00. inett addr: (=b0):1000;107(fef2)4755/44 Souppillark ()= SouCoACTA: NUMBURN MUTICARY DUMANCE - MUTICAD : NY southerstars NUMBURN MUTICARY DUMANCE - MUTICAD : NY southerstars Y entropid dographil unwernund: 0 femen() TX packetstar3511 errors() dropped10 unwernund: 0 femen() TX packetstar404 (4.1.311) TX hytesr60013 (66.4 KLB)		
FOOTBING			*

Wi-Fi Configuration

Step 1. Check the network interfaces by executing the ifconfig wlan0 up command.

- ifconfig wlan0 up



Step 2. connmanctl scan wifi & connect

- connmanctl scan wifi
- connmanctl services
- connmanctl
- agent on
- connect wifi_2.....

111110001-Fully	the second design of the secon	
UF BROADCAT	T MULTICAST DINAMIC / MUU11600 Metricoll	
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man Binney and Phillip		
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rest Fistel-marks-Ile	CONTRACT ANTICAS	
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HETGERR 2.46	wifi 2cd074620765 4+45544745416220322#3447 managed pag	
T9245 AC1900	wifi 2cd574620765 54505234475f614331351030 managed psk	
HCH-WLAN	wifi 200974620785 484240205740414e Managed pak	
	wifi 2cd976620785 536162696e61 managed psk	
	wif1 200978628785 6061728c managed wep	
	wifi_2cd974620765_6563752c6566666f636f6d9d_managed_pax	
TE-1188 727068	wifi_2cd576628789_5450204c694e6b5f375237624235_managed_none	
HIC EVO.	wifi_20d974620745_4354402045564f_managed_paw	
SoftERP-D7	wifi_2cd974420785_526f687441502d4437_managed_pit	
	wifi_20d974620765_6b497473766573747372656652_manages_pak	
14tin_63BE16	w1f1_20d074622760_60407469730f365342453136_mahaqad_pak	
	wifi_2od070620765_666c606c6020353123612d7a_managed_prk	
Fun	wifi_200074620745_45756e_managed_pst	
Ellsterispid	V121_2cd374620785_626374737663727473756966_managed_page	
BARLING BRATTIN	WITI 2009745237HD_534170496467D74352465731As_memogen_pok	
202640_240	wifi 2cdD74820765 414338345557320447 manapad pas	
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Contrasting of spinsaring	1111_3000974423745_5430304049464002322+3+474078523433345344740_mmanaget_pet	
commance 15		

Bluetooth Configuration

Input the following commands. Send shell command.

(Connect)

- bluetoothctl
- agent on
- power on
- scan on
- scan off
- devices
- pair **BT MAC Address**
- trust BT MAC Address

(Disconnect)

- disconnect <u>BT MAC Address</u>
- remove **BT MAC Address**

4G LTE Network Configuration

Input the following commands.

Choose one of the following three commands (1 \sim 3) based on the corresponding LTE module.

- 1. pppd call mu609 & --> Huawei ME909s 120 module
 - 2. pppd call UC20 & --> QuecTel UC21-JMINPCIE
 - 3. pppd call UC20 & --> QuecTel EC21-AU
- ifcofig

COLUMN	enetty.				
Peky (Xe					
intel-qu root8int	ark login: suct #1-guark:+# pppd cell UCIO	4			
(COM15	SPATIO				 *
could no local I remote I primery secondar Script / Script /	<pre>C ContAck id=0.2 caddm 10. determine remote IF addme f addment 10.158.110.220 f addment 10.61.61.64 BMS addment 168.95.122.1 DMS addment 168.95.122.1 utc/ppp/ip-ap started (pid sto/ppp/ip-up finished (pid sto/pp) (pid sto/pp) (pid sto/pp) (pid sto/pp) (pid storp) (pid st</pre>	198.110.220> cms-dns1 mm: defaulting to 10.4 407) 407), status = DeD	168.95.1.1> cms-dns2 1 14.64.54	48,95,197,15]	
root@int eth0	el-quark:*# ifcoofig Link encapitiblernet HHad Us ReadActs HHILICAT UN RK packets:0 errors:0 dro TX packets:0 errors:0 dro collations:0 trapewolen:1 RK bytes:0 (0.0 H) TK by Interrupt:/2 More addinge	dr F%:4d:30:c2:06:08 HAMEEC MTD:1500 Metri opped:0 overruns:0 Exa opped:0 overruns:0 ca 000 nes:12759 (E.T Hilb) (0x4000	icil seiß rrieriù		
ethDiD	Link encap:Ethernet HNad Linet addr:192.188.0.1 Be UM HBGADCAST MULTICAST DY Interrupt:32 Base address	ur 24)40:30:02/06/06 metr192.165.0.255 Mar NAMEC MTU:1500 Netr) :0x4000	uk:258.258.268.9 le:1		
1=	Link encep:Local Loophack inet addrild7.0.0.1 Mash inet& addrild7.0.0.1 Mash UP LOOPDACE RUMNING MTU NE packwasill1 errorei TK packwasill1 errorei ULIIsiosi0 taqoumleni1 NE bytesitl226 ("D.4 MiB)	1253.0.0.0 Heat SG34 Petrini dropped(0 overrune10) dropped(0 overrune10) TX bytes:81329 (79.4	frame:0 marxier:0 1 M18)		
sepi)	Link mncap:Point-to-Point inat andr:10.195.110.220 UP POINTOPOINT AUMUNG UN EX packets:4 errors:0 dro TX packets:4 errors:0 dro militation:0 tapenelen:3 HX bytes:52 (52.0 H) TX	Frotocol P-1-P-10.44.64.06 Mu ARB MULTICART MTU-100 ppedi0 overrung10 free ppedi0 overrung10 carr bytes:00 (30.0 M)	ank:255.255.255.255 00 Nortrio:1 06:0 rieg:0		4.5
root#int	el-quark)-t				

Program Examples

Intel Quark - Programming GPIO From Linux

For GWS-HZW1 board, most of the GPIO features can be achieved through the Linux Sysfs interface and can be controlled using file I/O. In following sections, we will show you how to activate some features by using some simple shell commands. Of course, besides using shell commands, you can also perform I/O actions via using some file operations. All the concerned programs can be written in your desired language.

Digital GPIO - Sysfs Interface

GPIO Information

Following commands can display the system's GPIO information, showing which IO port is being assigned to which module or Sysfs.

Command : cat /sys/kernel/debug/gpio



Examples For LED GPIO Control Method

Set GPIO pins
 echo 9 > /sys/class/gpio/export

Set the direction of GPIO(INPUT or OUTPUT)
echo out > /sys/class/gpio/gpio9/direction
Set GPIO swtich
echo 1 > /sys/class/gpio/gpio9/value
Inquire the current GPIO value

cat /sys/class/gpio/gpio9/value



產品介紹

型號

GWS-H7W1



包裝內容

- ✓ GWS-HZW1 家用閘道器
- ✓ 電源供應器 (12V DC, ASIAN POWER DEVICES INC.WA-24012FU) *
- ✓ 快速使用指南

注意: * 本產品僅可使用隨附的電源供應器。

安裝Micro SIM卡

步驟:

- 1. 對準設備的SIM卡插槽。
- 2. 輕輕地插入SIM卡。







設備供電

步驟:

- 1. 將電源供應器插入電源插座。
- 2. 將電源供應器插入本機電源插孔。
- 3. 將電源開關撥至ON位置。





注意: * LED電源指示燈為紅色, 且閘道器處於啟動狀態。

產品規格特色

連接方案

網絡端口,支援WiFi,藍牙

支援介面

DC-in供電插孔、SIM卡槽、重置孔、網絡端口、 電源開關、 客戶調試端口

產品尺寸、重量

尺寸: 128×117×38.7 mm 重量: 335克

環境條件

操作溫度: 0°C to +45°C (32°F to 113°F) 儲存溫度: -20°C to +60°C (-4°F to 140°F)

指示燈行為



序 號	LED指示 燈	顏色	功能
1	電源指 示燈	藍燈/紅燈	l. 通電 => 紅燈亮 2. 啟動,系統運行中 => 藍 燈亮
2	LTE指示 燈	藍燈	開啟 => 藍燈亮
3	WiFi指 示燈	藍燈	開啟 => 藍燈亮
4	藍牙指 示燈	藍燈	開啟 => 藍燈亮
5	Zigbee 指示燈	藍燈	開啟 => 藍燈亮
6	Z-Wave 指示燈	藍燈	開啟 => 藍燈亮
7	電池指 示燈	藍燈	1. 充電 => 藍燈亮 2. 充電完成 => 燈滅

使用GWS-HZW1

系統啟動

以 'root' 帳號登録,然後執行 'poweroff' 或 'reboot' 指令。

root@WR-IntelligentDevice:~# poweroff

root@WR-IntelligentDevice:~# reboot

或發送ssh遠程指令給GWS-HZW1。 ecs@ecs-IoT:~\$ ssh root@**192.168.0.1** poweroff root@**192.168.0.1**'s password: ecs@ecs-IoT:~\$

ecs@ecs-IoT:~\$ ssh root@192.168.0.1 reboot root@192.168.0.1's password: ecs@ecs-IoT:~\$

系統登錄

使用micro-usb通過稱為 'console (控制台)'的Linux shell可進入及控制系統。使用者可調用Linux 指令來配 置以下程式中的某些內容。 如下圖:



若使用串□console或終端模擬器,串□console的設定如下:

設定	值
Baud (波特)	115200
Parity (奇偶性)	No
Data Bit(數據位數)	8
Stop Bit(終止位數)	1
Flow Control(流程控制)	No

若使用Secure Shell(稱為SSH),它將偵聽LAN 1,IP為 192.168.0.1。LAN1 為靠近USB 插孔的RJ45 連接器。



圖為 LAN 1 連接器的位置

登錄的帳戶為'root'。



網路設定

以下步驟用來設定GWS-HZW1的局域網(LAN)。如果 GWS-HZW1的網路無法正常使用,您應該需要使用串口 console,以手動的方式來設定或啟動網路。

步驟1. 檢查網路介面。 Command: ifconfig



步驟2. 啟用網路介面,e.g.ethO。若無ethO,請使用圖中command啟動。

root@WR-IntelligentDevice:~# ifconfig eth0 up

步驟3. 若設定不匹配,請編輯/etc/network/interfaces 以便在啟動時生效。

DHCP連線的設定方式如下: vi /etc/network/interfaces

root9inesi-quarkr-1
costBl054I-(pakiki+#
sobt@intel-quark:-# vi /eto/network/interfaces
/etc/network/interfaces configuration file for ifup(8), ifdown(8)
The loopback interface
auto lo
iface in inst loopback
Wireless incertages
iface wish inst dhep
wireless_mode managed
wirelens_essid any
Wps-driver Wess
wpa-conf /etc/wpa_supplicant.conf
iface stml0 inct dhup
Wired or wireless interfaces
auts sch0
iface sth0 inst dbop
iface ethi int dhop
<pre># Ethernet/RNDII.gadget (g_ether)</pre>
f or on bost wide, usbbet and random hwaddr
iface usk0 inet static
sdaress 132.166.7.2
netmark 255.211.255.0
petwork 192,168,7.0
gateway 132.168.7.1
Sluetcotk networking
iface bnep0 inct dhap
root@incel-quark:*
rootBintel-guark:-#
root@intel-goarki-#
root@intei~quarki-#
toot#inisi-quark:-#
rootsintel-quarki-e []

固定IP如下 eth0:0 → 192.168.0.1

A 192.100			- 9	
root9int root9int eth0	Al-quarter 4 di-quarter 4 Link mosquitheerns: BRaddr f4:40:00:c0110:43 Link mosquitheerns: Ast.D2.172 Boast1240.254.251.251 Maak255.255.0.0 inned addre f460:17440.00000 (rec) production (address f500000 (rec) production (address f500000 (rec)) (rec) production (address f500000 (rec)) (rec) production (address f50000 (rec)) (rec) (r	e		
ech0:0	Link wocapilthernet HMaddr f4:44:30:00/11b:43 inet addr:132.184.0.1 Boast:132.148.0.255 Maswi235.255.255.0 UN BBOACACHT HOMNING MURITICART DYNAMIC MTV:1500 Metric:1 Interrupt:32 Rase address:Dx8000			
10	Link mongpilozak Kongkark hart addri 19.0.1 Mask225.0.0.0 hard addri 19.0.1 Mask225.0.0.0 For AcOPACK MEDDING NOTABONA (Marcial SK packtarl346 monsciol droppodio (versinalo fismario KK packtarl346 ministo diappodio (versinalo mariario collinionio magnemetarl3 SK byrestident (133.3 XM) TK byrestid(67 (130.3 KLB)			
wiano	Link mongaftömernet. Medde 20-081742-197-05 here dörf129/106-100/108 benet130:388-100-550 Mark:250.250.0 hared addr: febDi:deuBiTHEftfeeDiJHS768 GeopelLDw D=800ACCHE-NUMDHIM HUTLAGEN UNMARC. PHILION Metchill RX packetsl29311 mrinets) dropped:0 uversinatio femmein TX packetsl2947 mrinetsi dropped:0 uversinatio femmein Millionni0 raypemeines1000			
TOOLSING				

WiFi網路設定

步驟1. 檢查網路介面。

- ifconfig wlan0 up



步驟2. connmanctl scan wifi & connect

- connmanctl scan wifi
- connmanctl services
- connmanctl
- agent on
- connect wifi_2.....

P INLIGHT - PUTTY		
UP BRGADCAT FX packets: IX packets: collisions: XX byims:0	<pre>#INITICAT FUNDATC SW011600 Hercanit S scrapping stoppedit swarpsmin() frame)3 8 statist) doppedit swarpsmin() frame)3 9 sagewarpsmin()00 10.23 pr. % press() (0.2 s) 5.3 (statistics) (0.2 s)</pre>	
Tran populated for all		
root@thtrl-quarkt-4		
rostFutel-mark-the	CONNECT ANTICAS	
-M. Hared	ellernet 0000000000 cable	
*A TE-LINE 2.40Hz 43	3E4D with constantion bacconcenterectilesterrationistications managed par	
Rang5y	wifi Zcd074620745 454066675310 managed wep	
H2-AC3200	wifi 2000/16520165 525420424333322020 manaped pot	
ecs-eng:	wifi 2cd074620745 4143732d656d70 managed isen8021a	
ecs-guest.	VLT3 200374420745 634375206775457174 manaped none	
#09-0CA	wifi 200575520745 63637120667551 managed inne5021a	
ece-emp-web	wifs 2pdb74622745 656375246564703d776562 managed none	
1500W08R148-5F	wifs 20dV14620145 559055574742522136552dte managed pak	
Entie iphone	wifi 2cd974620745 4364646965306976600f6e65 managed pak	
Heigear 2.40	wifi 200978628785 \$e65786765617232223987 managed psk	
HETGERR 2.49	wifi_200074620765_4+455+4745416220322+3447_managed_pak	
TP245 301900	wifi 2cd876620765 5450323467524143313551030 managed gak	
HC21-WLAN	wifi_200974620765_404040205740414e_wanaged_pak	
Sahina	9151 2cd974620785 536363696e63 managed pak	
hart.	wifi_200978526785_6063726c_Ashaged_weg	
ecs-infocess	wifi_2cd074620745_6563752d6566666f656f6d8d_Banaged_pax	
TP-1310 727888	wifi 2cd574628745_5450204c4955f375237624235_managed_mone	
HIC EVO.	w1f1_20d974620745_4854402045166f_banaged_pax	
SoftAF-D7	wifi_2cdD74620745_550f60744150208437_managed_pix	
kitstestssid2	W171_200974820785_68497473746579747372656452_manages_pak	
THEFTE CIBRIC	W171_201074620763_864074607307363342453136_managed_prx	
diinte-bina+d	wifi_20d970610765_660ccc05666020355135612d7a_66000ged_prm	
Tests	wifi 200919610165 Ab756e managed pre	
Ellatestas113	W111 200374620765 824074737465727473756306 manaped psk	
Deputer Depitate	WITT 200914828148 ST411049646101418248572144 Bantagen Dok	
ACCERT DATE	WIEL 2000 HERRIES HIGHERDODIFIZZHAT MANADAR DAR	
-HURAP2-40	wifi 2000/4620745 hidden managed pek	
roothings1-quarkies		
LOCCETUCAT-Breck1-1	CONTRACTOR 3	
connead ct 1		-
DOGOMATION MONTE ON		
Agent requirtanted		
COOMMODIL		
Contraction of Contraction of	a second state and second s	
Contraction of the local division of the loc		

Bluetooth設定連結

依照下列command輸入

Send shell command.

(連接)

- bluetoothctl
- agent on
- power on
- scan on
- scan off
- devices
- pair BT MAC Address
- trust BT MAC Address



- disconnect BT MAC Address
- remove **BT MAC Address**

4G LTE網路設定如下

I依照下列command輸入

(依照使用的LTE module 選擇1-3其中之一command)

- 1. pppd call mu609 & --> Huawei ME909s 120 module
 - 2. pppd call UC20 & --> QuecTel UC21-JMINPCIE
 - 3. pppd call UC20 & --> QuecTel EC21-AU
- ifcofig

COME	- NUTY				
Roky (To					
ints1-qu ross@int	ark login: soct xel-quark:+€ pppd cell 0020				
	EPATR				 *
covd [18 Oxid no local I primery secondar Script / Script / rootWint	CP ContAck id=0s1 coder 10 c determine remote TP adds f address (0.198.10.0.220 F address (0.198.10.0.220 F address (0.6.44.64 IBS address (0.6.40.102.1 tBS address (0.6.40.102.1 etc/ppp/ip-up started (pid etc/ppp/ip-up started (pid etc/ppp/ip-up started (pid s1-quark: # ifconfig	.190.110.7205 Ges-dns1 enn: defaulting to 10. 407) d 907), status = DeD	148.95.1.19 cms-dns2 1 44.84.85	68.95.192.151	
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etmoiro	Link encap:Ribernet HWa Inet addr:192.168.0.1 B UV BBGADCAST MULTICAST D Incertupt:32 Base addres	dix 24:40:30:02:06:00 cast:192.168.0.255 No YNAMEC MTD:1500 Nets s:0x4000	am1253.258.258.0 1011		
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cootsist	el-quarky-# []				-

程式範例

Intel Quark - Programming GPIO From Linux

在GWS-HZW1板子上,大部分的GP10功能都可以透過Linux Sysfs介面來動作,而且可以用檔案1/0的方式來進行控 制。以下將介紹如何通過簡易的shell命令使用其中的某 些功能。當然除了shell,您可以使用程式以檔案操作方 式來執行1/0,這些程式可以用您最喜歡的程式語言進行 編寫。

Digital GPIO - Sysfs Interface

GPIO Information

以下命令給出了有關系統中GP10的資訊,且顯示了一個10 埠被分配給哪一個Module或Sysfs(使用者)。

Command : cat /sys/kernel/debug/gpio



LED GIPO的控制方法舉例

- 設定GP10腳位

echo 9 > /sys/class/gpio/export

- 設定GP10為input或output

echo out > /sys/class/gpio/gpio9/direction

- 設定GP10開關

echo 1 > /sys/class/gpio/gpio9/value

- 查詢GIPO目前的值

cat /sys/class/gpio/gpio9/value



Notice



Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.



Operating temperature: $0^{\circ}C \sim 45^{\circ}C$ ($32^{\circ}F \sim 113^{\circ}F$) Storage Temperature: $-20^{\circ}C \sim 60^{\circ}C$ ($-4^{\circ}F \sim 140^{\circ}F$)

注意事項



如果電池更換不當會有爆炸危險。請僅更換相同型 號或製造商推薦的同類型號的電池。請根據製造商 的說明處置廢舊電池。



本產品工作溫度:0℃~45℃(32℃~113℃) 存儲溫度:-20℃~60℃(-4℃~140℃)

此為非手持式裝置帶電池式產品,符合SAR的相關規定 (1)此裝置不得導致有害干擾;以及(2)此裝置必須接受 任何干擾,包括可能會導致非預期操作的干擾。

FCC Label Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference (2) This device must accept any interference received, including interference that may cause undersired opreation

To assure continued FCC compliance:

1. Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

2. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

本產品符合低功率電波輻射性電機管理辦法 第十二條、 第十四條等條文規定。

- 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或 變更原設計之特性及功能。
- 低功率射頻電機之使用不得影響飛航安全及干擾合法 通信;經發現有干擾現象時,應立即停用,並改善至 無干擾時方得繼續使用。前項合法通信,指依電信法 規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電 波輻射性電機設備之干擾。



CCAO18LP0020T8

限用物質含有情況標示

	限用物質及其化學符號									
單元	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr ⁺⁶)	多溴聯苯 (PBB)	多溴二 苯醚 (PBDE)				
電路板(卡)	_	0	0	0	0	0				
電子紙顯示 器模組	0	0	0	0	0	0				
塑膠機構件	_	0	0	0	0	0				
金屬機構件	_	0	0	0	0	0				
線材	0	0	0	0	0	0				
電源供應器	—	0	0	0	0	0				
備考1. "〇″係指該項限用物質之百分比含量未超出百分比含量 基準值。 備考2. "-″係指該項限用物質為排除項目。										

進口/委製造商

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