PANCHINA SMART SUN

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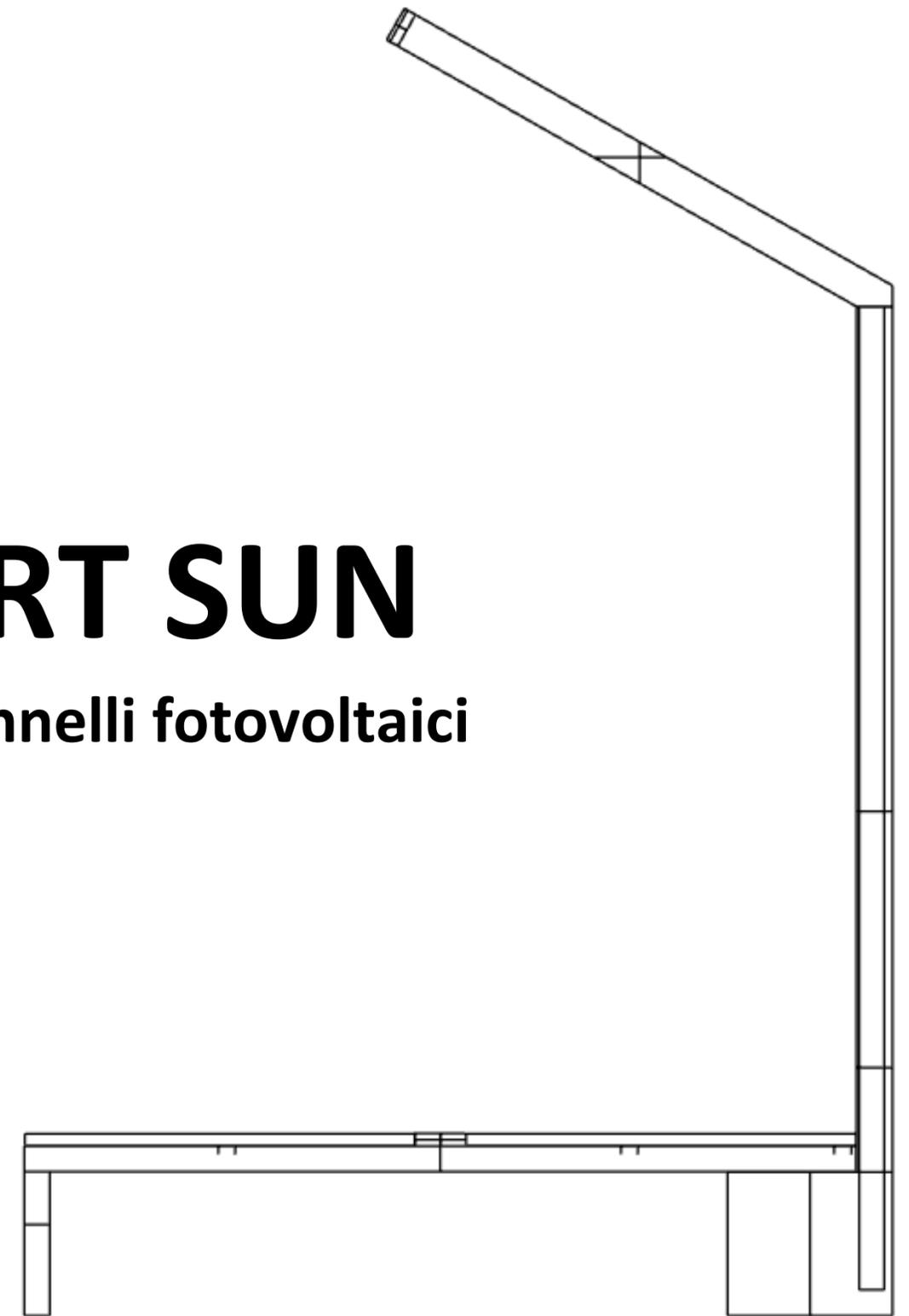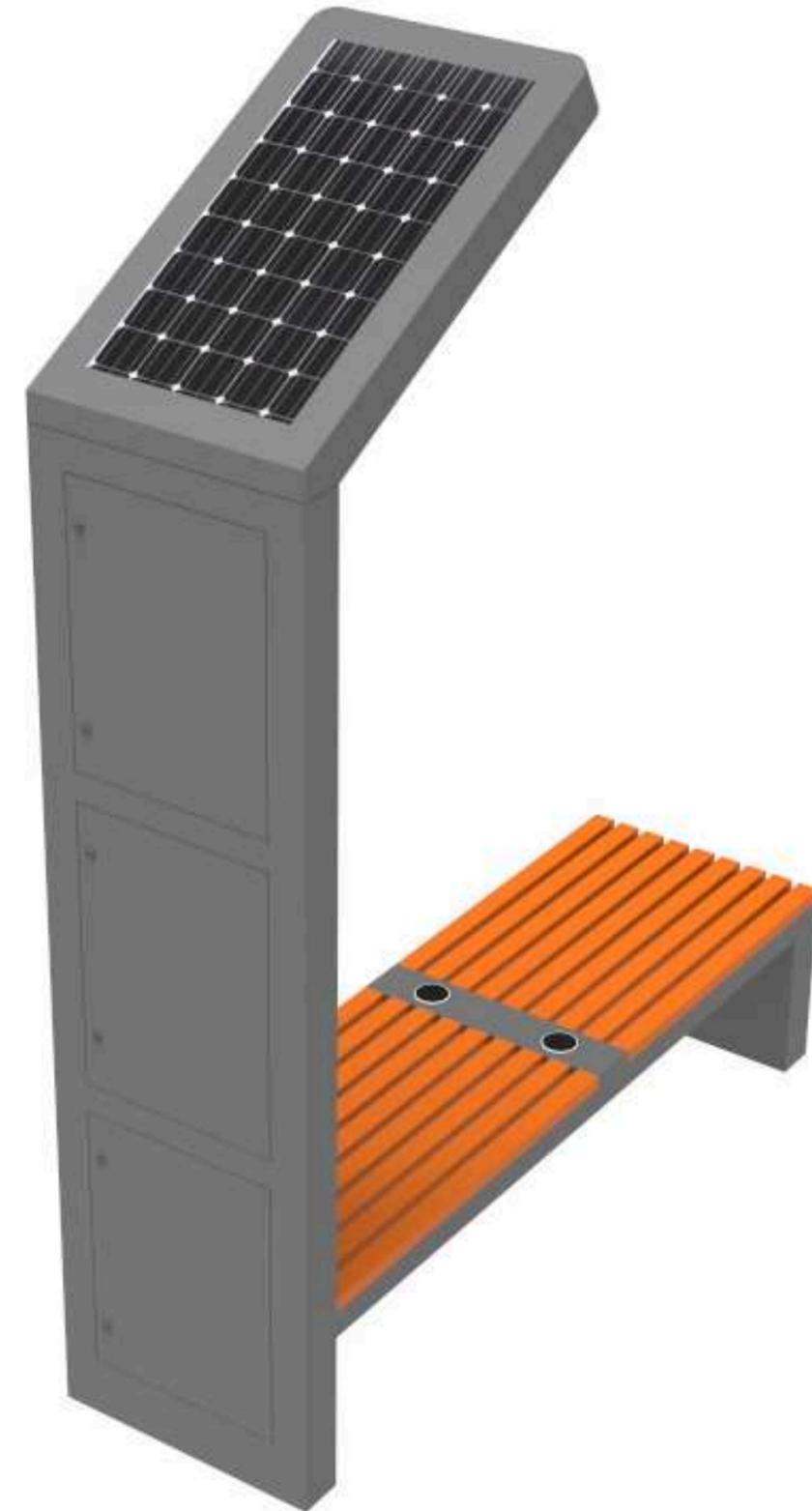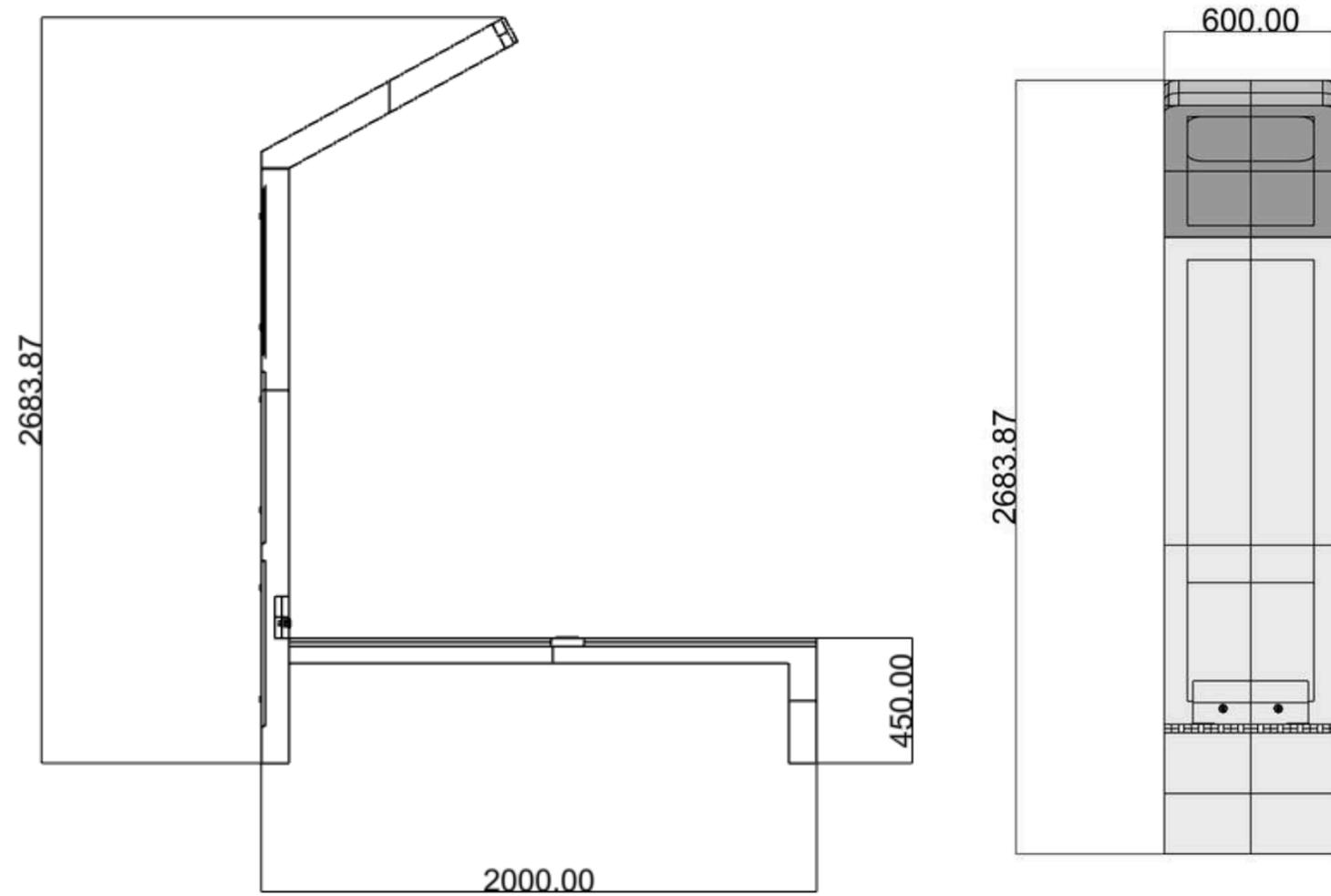
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2. Product size

32- inch display series
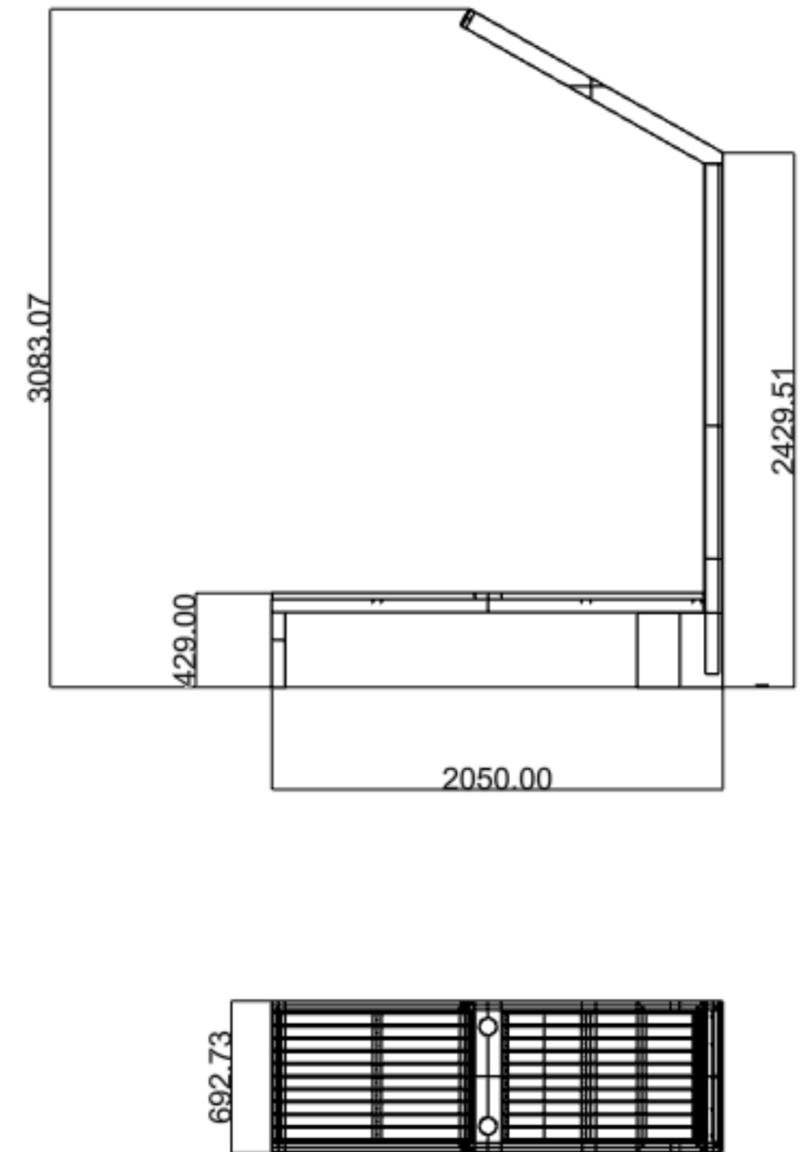
Large billboard series

32- inch display   **3. Product configuration parameters**

Large billboard

name	quantity
light source	1
Wireless charging	2
USB charging	2
Wireless charging	2
Bluetooth Speaker	2
WiFi	1
Battery	1
Display	1
Light source remote control	1
leakage protector	1
fan	2
Temperature control	1
Package Size	2100*650*550

name	quantity
light source	1
Wireless charging	2
USB charging	2
Wireless charging	2
Bluetooth Speaker	2
WiFi	1
Battery	1
Display	none
Light source remote control	1
leakage protector	1
fan	none
Temperature control	1
Package Size	2550*710*600

4. Light source parameters

name	parameter	
Material	PC	
power	15W LED	
Color Temperature	3000K-6000K optional	
Lighting time	max24 hours	
control method	Light control + time control	
remote control	have	

Operating Voltage	12-30V	
Operating temperature	-35--85℃	
Protection level	IP65	
Maintenance method	Express Replacement	
Beam angle	105 °	
Way of working	automatic	
Power supply	lithium battery	

4. Battery parameters
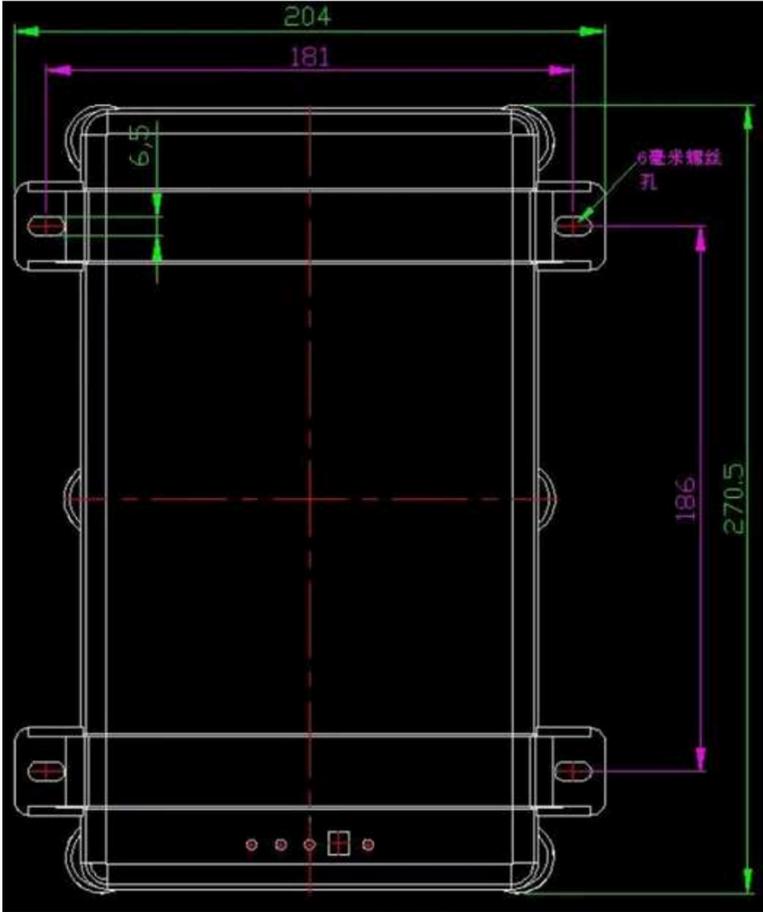
name	parameter	
shell material	PC	
Rated voltage	12.8V	
Battery Type	Lithium Iron Phosphate	
Shell size	275*190*83	
Undervoltage protection	10V	
Overshoot protection	14.4v	

Charging Type	MPPT	
Operating temperature	-35--75℃	
Protection level	IP65	
Maintenance method	Express Replacement	
interface	8 DCs	
Way of working	automatic	
Charging method	Solar panel /DC12V	

5.USB parameters

name	parameter
shell material	ABS
Rated voltage	DC 8-48V
USB interface	USB3.0
TYPE-C	2A
Digital display	Voltage display
Protection level	IP54
Rain cap material	PE

Short circuit protection	have
Reverse polarity protection	have
Maintenance method	Express Replacement
Display Color	Red / green optional
Installation	Plug-in
Certificate	CE
Warranty	2 years

6. Wireless charging parameters

name	parameter
shell material	ABS plating
Rated voltage	DC 8-24V
rated power	12V 18W
Panel material	PC
size	Diameter 80MM
Protection level	IP54
Rain cap material	PE
Short circuit protection	**have**
Reverse polarity protection	have
Maintenance method	Express Replacement
color	Metallic
Installation	Plug-in
Certificate	CE
Warranty	2 years

7. Bluetooth speaker parameters
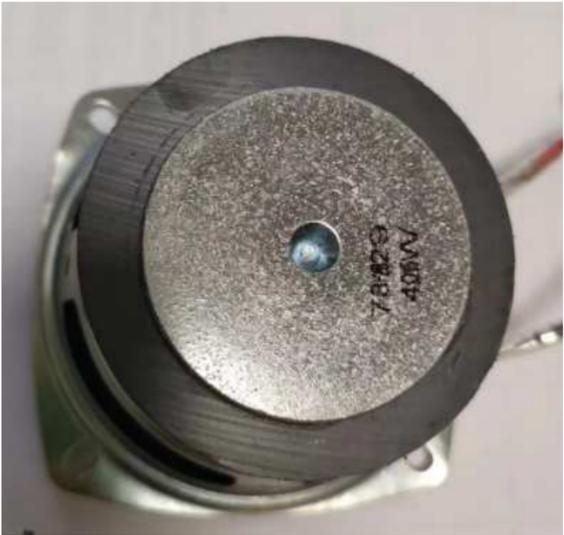
name	parameter
shell material	Metal
Rated power	15W
Resistance	4Ω
Motherboard power supply	DC8-18V
Channel	Left channel + right channel
Protection level	IP54
Bluetooth Name	Solar seats
Bluetooth distance	**25 meters**
Number of connected users	1
auto connect	support
Power on prompt voice	Chinese / English optional
Voice content	customizable
Connection prompt tone	customizable
Disconnect tone	customizable

8.WiFi parameters

Hardware Configuration	
main chip	MTK7628KN 300M high performance enterprise chip
Main frequency	580MHz
wireless technology	802.11b/g/n 300M MIMO technology
flash memory	8M
Memory	2M
Device interface	1 * 10/100Mbps WAN port 2 * 10/100Mbps LAN ports Large SIM card slot
antenna	5dBi clip on rubber rod antenna 4G 2T2R 5dBi on rubber rod antenna*2 WiFi 2T2R 2.4G 5dBi on rubber rod antenna*2
Power consumption	<10W
Button	1 reset button, press and hold for 3 seconds to restore to factory settings
Indicator Lights	6 groups : power, WIFI , 4G , WAN , LAN1 , LAN2
size and weight	195mm*115mm*30mm, 250g
Operating / Storage Temperature	-10℃～50℃/-40℃～70℃
Operating / Storage Humidity	5%～95%(non-condensing)

WiFi Features

Transmission rate	11b: 1/2/5.5/11Mbps 11g: 6/9/12/18/24/36/48/54Mbps 11n: Up to 300Mbps
Receiving sensitivity	11b: <-84dbm@11Mbps; 11g: <-69dbm@54Mbps; 11n: HT20<-67dbm HT40: <-64dbm
Transmission power	11b: 18dBm@ 1~11Mbps 11g: 16dBm@ 6~54Mbps 11n: 15dBm@ MCS0~7
Communication standards	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.11b/g/n (2.4G WLAN)
Wireless Security	WPA/WPA2 Security mechanism (WPA-PSK use TKIP or AES)

Features

Operating mode	4G access, routing mode, AP mode
Capacity	30
Management Style	Chinese WEB remote management
state	System status, interface status, routing table
Wireless network configuration	WiFi basic parameter configuration/blacklist
Network Settings	Operating mode LAN port/WAN address settings
Traffic Assistant	Traffic statistics/packet settings/traffic control
system	System properties/password modification/backup and upgrade/system log/restart
installation guide	Quick Configuration Wizard

4G Features

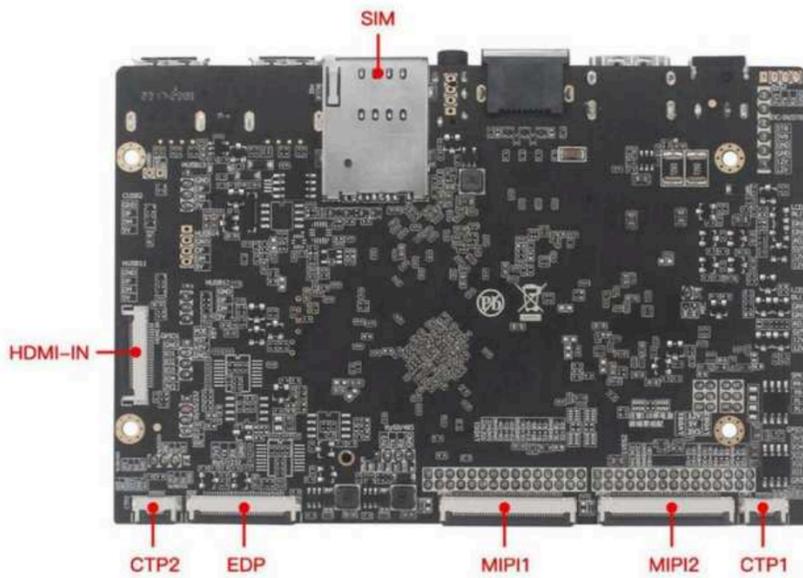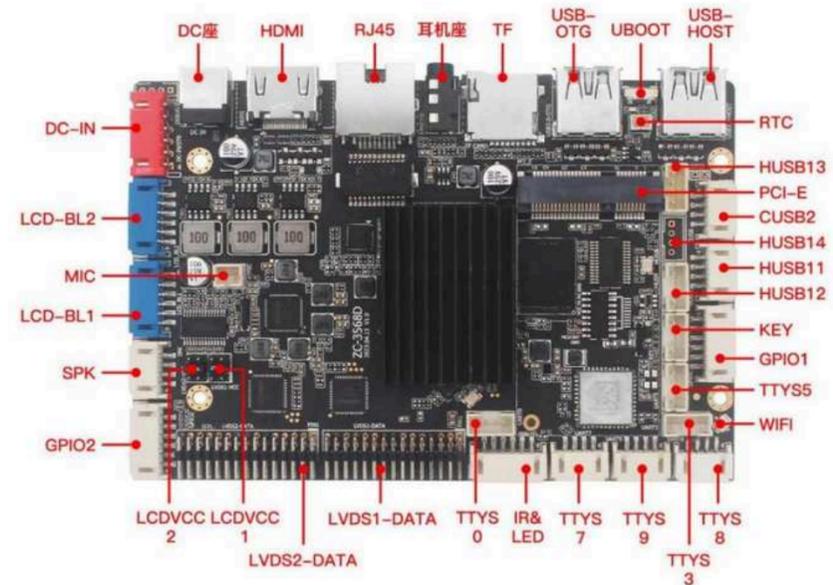|	
Network Systems	LTE FDD/TDD, UMTS DC-HSDPA/HSUPA/WCDMA, GSM EDGE/GPRS
LTE-FDD	B1/B3/B 7 /B8 /B20/B28:700/800/900/1800/2100/2600mhz
LTE-TDD	B38/B40/B41:2500/2300/2600MHz
WCDMA	B1/B5/B8:850/900/2100MHz
GSM	GSM:900/1800mhz
Data transfer rate	LTE: LTE FDD: Max 150Mbps (DL) / Max 50Mbps (UL) LTE TDD: Max 130Mbps (DL) / Max 30Mbps (UL) UMTS: DC-HSDPA: Max 21Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL) / Max 384Kbps (UL) GSM: EDGE: Max 296Kbps (DL) / Max 236Kbps (UL) GPRS: Max. 107Kbps (DL) / Max. 85.6Kbps (UL)

network

Backstage		http://176.16.0.1
Log in		Password: admin (You will be asked to change the password when you log in for the first time as the default setting) Language: Chinese/English

9.1. Display screen control mainboard parameters

LVDS output	1 single/dual channel, capable of direct drive 50/60 Hz LCD screen
EDP output	EDP interface LCD screens with various resolutions
HDMI output	1, support 1080P@120 Hz , 4kx 2k@60 Hz output
Audio and video output	Support left and right channel output, built-in dual 8R/5W amplifier
RTC Real Time Clock	support
Timer switch	support
System Upgrade	Support SD card/computer update

Main hardware indicators

CPU	Rockchip RK 3288 powerful Quad-core 1.8 GHz Cortex -A17 quad-core GPU Mail -T764
Memory	2G (default) (up to 4G)
Internal memory	EMMC 16G (default)/ 32G/64G (optional)
built-in ROM	2 KB EEPROM
Decoding resolution	Support up to 3840 * 2160
operating system	Android 7.1
Play Mode	playback modes such as loop, timing, and insert
Network support	4G, Ethernet, support WiFi / Bluetooth 4.0, wireless peripheral expansion
Video playback	Support MP4 (.H.264, MPEG , DIVX , XVID) formats
USB 2.0 interface	2 USB HOST , 4 USB sockets
Mipi Camer a	24 pin FPC interface, supports 1300W Camera (optional)
Serial Port	Default 3 TTL serial port sockets (can be changed to RS 232 or 485)
GPS	External GPS (optional)
WIFI, BT	Built-in WIFI , BT4.0
4G	Built-in 4G module communication
Ethernet	1, 10M/100M/ 1000M Adaptive Ethernet
TF card	Support TF card

Top board labels: DC座, HDMI, RJ45, 耳机座, TF, USB-OTG, UBOOT, USB-HOST, RTC, HUSB13, PCI-E, CUSB2, HUSB14, HUSB11, HUSB12, KEY, GPIO1, TTYS5, WIFI, DC-IN, LCD-BL2, MIC, LCD-BL1, SPK, GPIO2, LCDVCC 2, LCDVCC 1, LVDS1-DATA, LVDS2-DATA, TTYS 0, IR& LED, TTYS 7, TTYS 9, TTYS 8, TTYS 3

Bottom board labels: SIM, HDMI-IN, CTP2, EDP, MIPI1, MIPI2, CTP1

| Built-in socket interface parameters		interface
J3	standard 12V round head 6.4 MM aperture, 2.0 MM inner needle, Inside Positive outside negative	
J15	Standard TF card interface definition	
J8	standard A-type HDMI socket	
J6	standard 100M RJ 45 socket (without light)	
J12	standard USB 2.0 large horizontal socket	
J20	standard USB 2.0 large horizontal socket	
J59	Definition of standard external headphone audio source socket	
SIM 1	Standard SIM card interface definition	

9.2. Display screen parameters

name	parameter
shell material	Metal
brightness	1000CD
Voltage	DC12v
Motherboard power supply	DC8-18V
Pixel	1920*1080P
type	LCD
size	32 inches

Protection level	IP54
fan	2* 15W
Temperature control	50℃ Normally open
powered by	12V interface /220V50HZ interface are available at the same time
Leakage insurance	have
Power Switching	12V/220V50HZ automatic switching
priority	Lithium battery first
control method	U disk, TF card, WiFi , 4G card, Ethernet, LAN
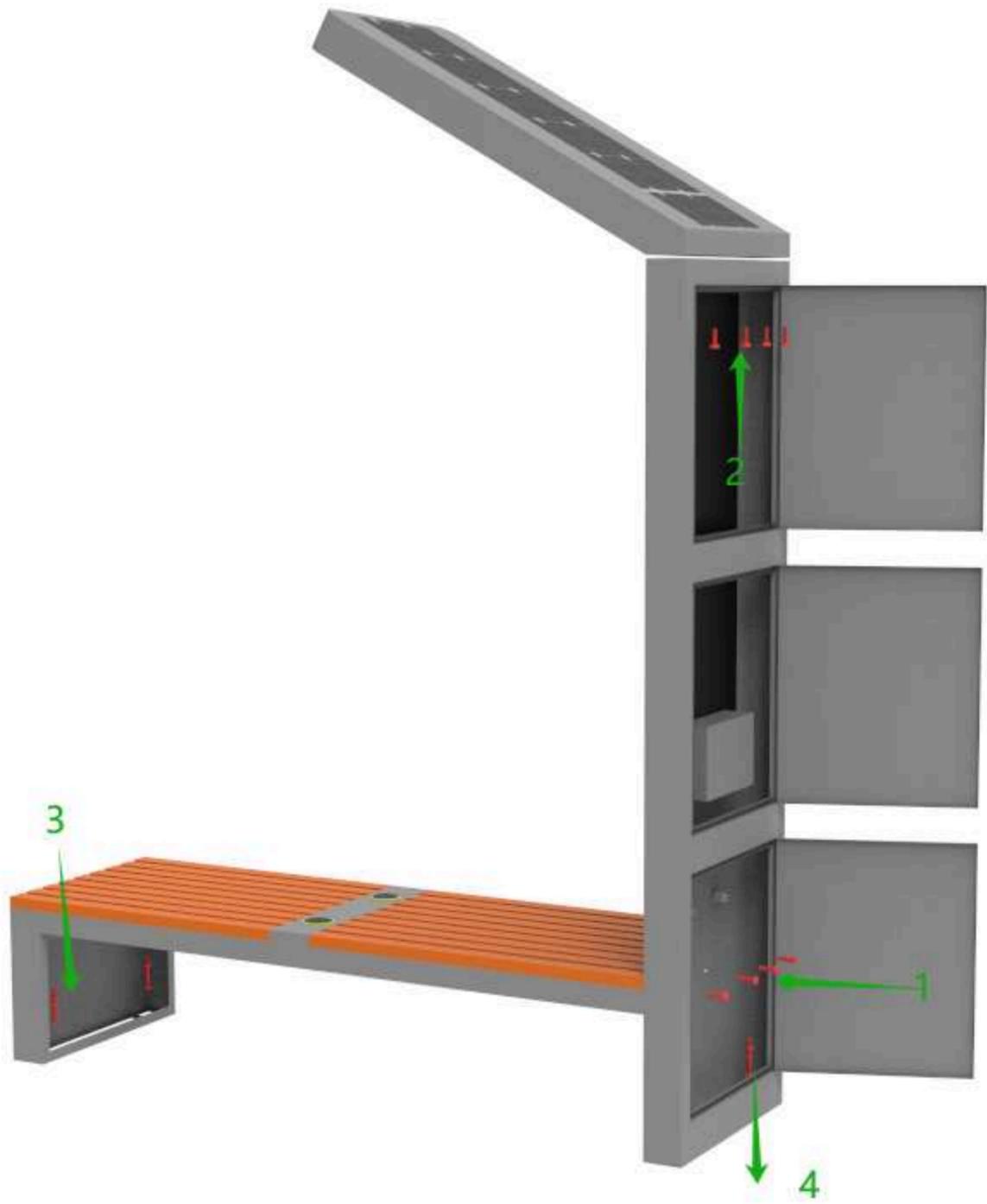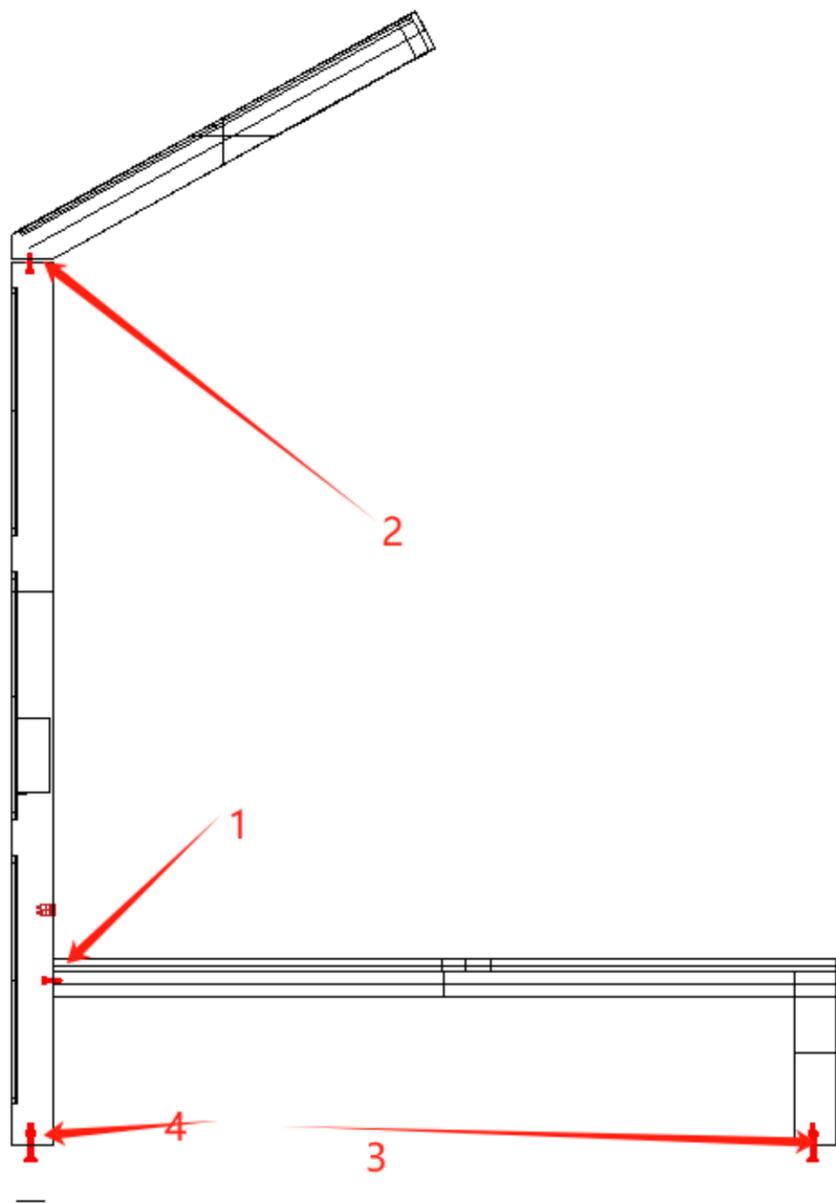
11.Wiring schematic diagram

RJ45

220V