Manuals+ — User Manuals Simplified.

ECHELON ECHTES-101 Touch Screen User Manual

Contents

ECHELON

ECHELON ECHTES-101 Touch Screen

About This Document

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Compliance Information For FCC (USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.
For IC (Canada)
CAN ICES-3(B)/NMB-3(B)
For CE (EU)
The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU
Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
FCC& IC Radiation Exposure Statement:

This equipment complies with FCC and Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Usage Notice

Warning – To prevent the risk of fire or shock hazards, and do not expose the product to moisture.

Warning – Please do not open or disassemble the product as this may cause electric shock.

Warning – Power cord shall be connected to a socket-outlet with earthing connection

Warning – The cable cover cannot be removed under normal use conditions.

Warning – Stability Hazard. The touch monitor may fall, causing serious personal injury or death. To prevent injury, this touch monitor must be securely attached to the wall in accordance with the installation instructions

Precautions

Please follow all warnings, precautions and maintenance as recommended in this user's manual to maximize the life of your unit.

Do

- Turn off the product before
- Use a soft cloth moistened with mild detergent to clean the product
- Use only the qualified power adapter that comes with your
- Disconnect the power plug from AC outlet if the product is not going to be used for an extended period of

Don't

- Do not use abrasive cleaners, waxes or solvents for your
- Do not operate the product under the following conditions:
    - Extremely hot, cold or humid
    - Areas susceptible to excessive dust and
    - Near any appliance generating a strong magnetic

Caution

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Overview

The ECHTES-101 is a thinner 10.1″ touch computer that offers a unique screw less design with expandability and flexibility, making expansion and accessory installation much easier. The versatility of ECHTES-101 is an exceptional choice for applications in all fitness sectors.
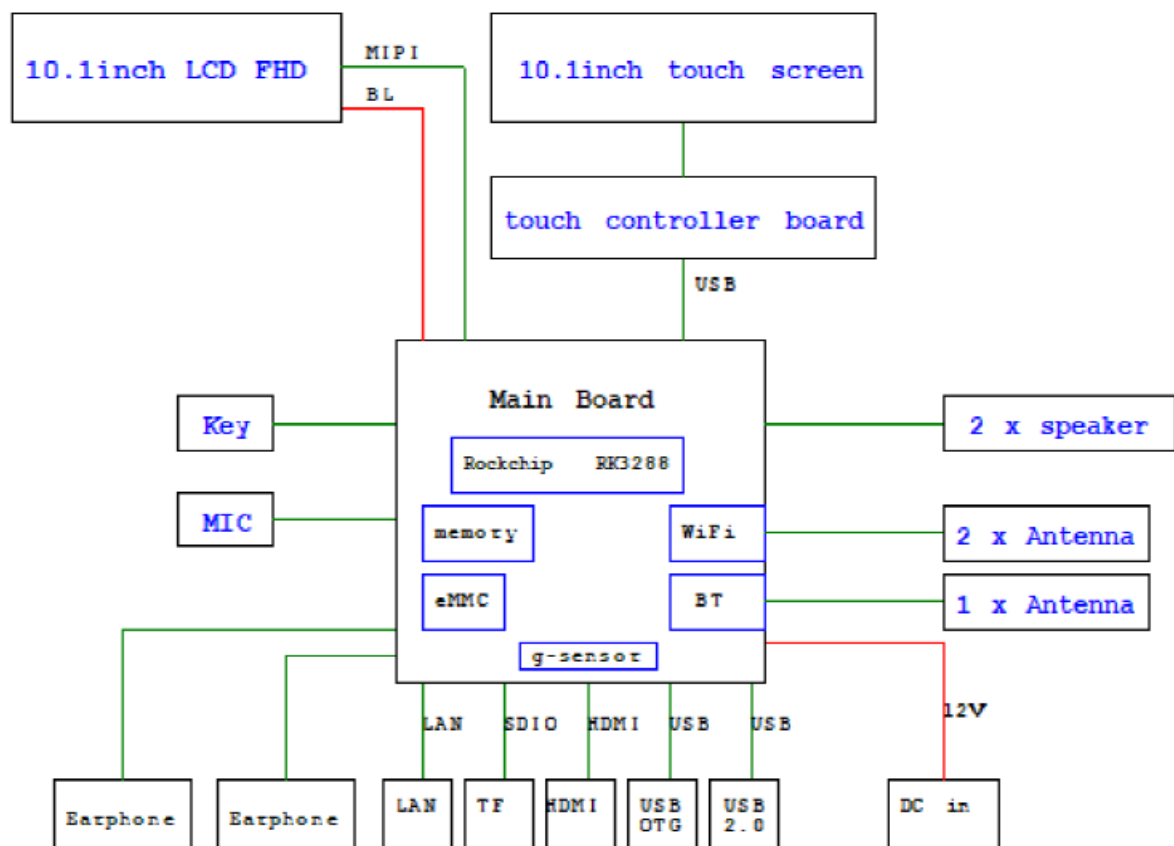
Feature

- Support Rock chip RK3288
- Support Wi-Fi 802.11ac 2T2R & BT5.0
- Support 5MP FF
- Support Screen
- Unique screw less design for better user
- Patented I/O design for better wiring management while implementation.
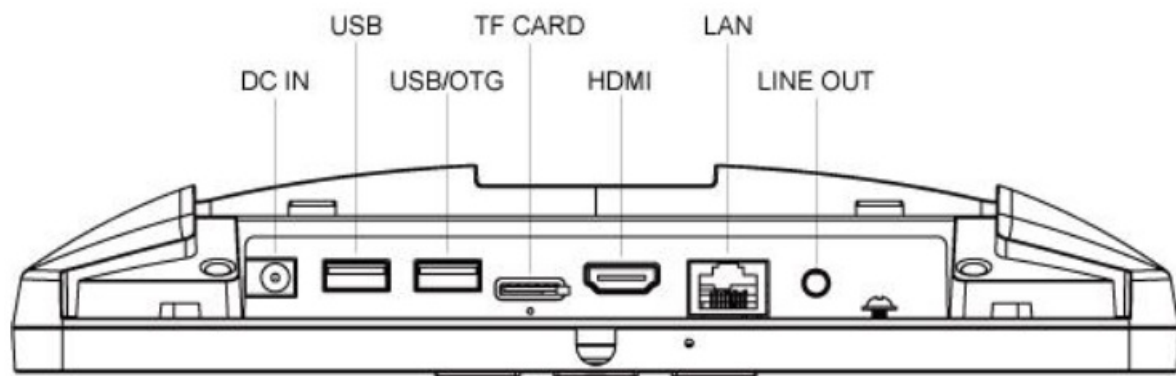
Specifications

System	
CPU	Rock chip RK3288, Quad-core Cortex-A17 up to 1.8GHz
GPU	Mail-T760 MP4
Memory	4GB dual channel LPDDR3
Storage	16GB eMMC
Input Power	DC in 12V/2A 2PIN
Display	4lane MIPI DSI, resolution up to 1200x1920P60
Touch	10.1inch P-Cap touch sensor, supports 10 fingers touch function.
Audio	2 x speaker (5W x 2)
G-sensor	3-axis
Network	Gigabit Ethernet Wi-Fi 802.11a/b/g/n/ac, 2T2R

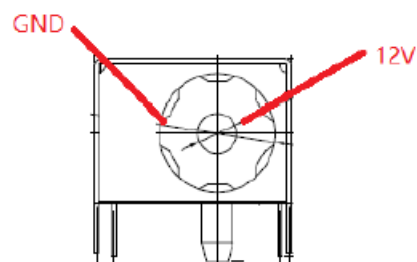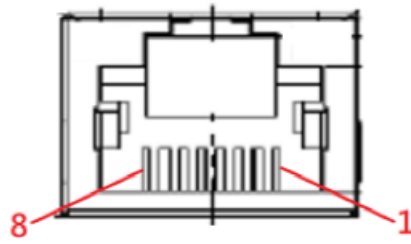|	Bluetooth 5.0 (Support BLE) 1T1R
External IO Ports	1 x LAN (Support 10/100/1000Mbps) 1 x TF slot (Support SDHC 2.0) 1 x Recovery key 1 x HDMI (Support 1080P@60Hz) 2 x USB2.0 Type-A (1 x HOST, 1 x OTG) 2 x 3.5mm earphone jack (Only one can be used at the same time) 1 x 12V DC In 1 x Power button, 1 x vol -, 1 x vol +
OS Version	Android 9.0
Operation Temp	0°C~40°C
Storage Temp.	-20°C to 60°C
Operation Humidity	20~80%, Non-Condensing
Storage Humidity	10~90%, Non-Condensing
LCD Touch Panel	
Size	10.1" TFT LCD
Brightness (non-touch screen)	Typical 250 cd/m2; min. 200 cd/m2
Brightness (P-CAP)	Typical 220 cd/m2; min. 160 cd/m2
Number of Pixels	1200 (H) × 1920 (V)/ 60Hz
Environment	
Certificate	CE FCC IC LVD UL UKCA RF NOM RCM ANATEL
Mounting	VESA 75 mm x 75 mm
Dimension (W x H x D)	246.86 mm x 204.80 mm x 45.78 mm
Net Weight	1.063 Kg
Gross Weight	1.61 Kg

Block Diagram

10.1inch LCD FHD — MIPI / BL

10.1inch touch screen

touch controller board — USB

Main Board

- Rockchip RK3288
- memory
- eMMC
- WiFi
- BT
- g-sensor

Key

MIC

2 x speaker

2 x Antenna

1 x Antenna

LAN   SDIO   HDMI   USB   USB   12V

Earphone   **Earphone**   **LAN**   **TF**   **HDMI**   **USB OTG**   **USB 2.0**   **DC in**

Interface Connectors

DC IN   USB/OTG   USB   TF CARD   HDMI   LAN   LINE OUT

12V DC in

GND   12V

Pin #	Signal Name	Pin #	Signal Name
1	12V	2	GND

RJ45 for LAN

Pin #	Signal Name	Pin #	Signal Name
1	TP1+	2	TP1-
3	TP2+	4	TP3-
5	TP3+	6	TP2-
7	TP4+	8	TP4-

USB2.0
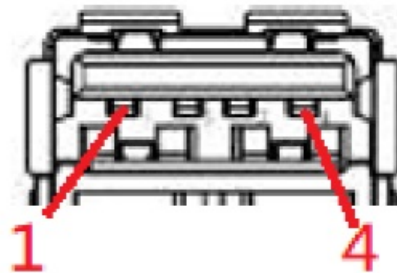
Pin #	Signal Name	Pin #	Signal Name
1	USB5V	2	D-
3	D+	4	GND

HDMI
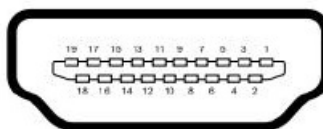
Pin #	Signal Name	Pin #	Signal Name
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC (N.C on device)	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

TF card
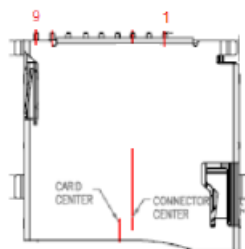
Pin #	Signal Name	Pin #	Signal Name
1	DAT2	2	DAT3
3	CMD	4	VCC
5	CLK	6	GND
7	DAT0	8	DAT1
9	CD		

Line Out
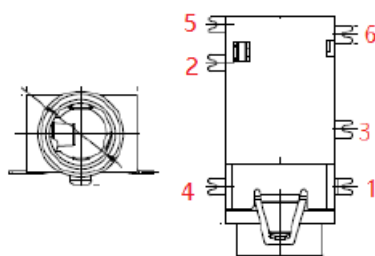
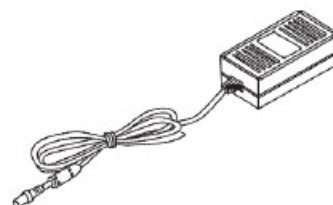| Pin #	Signal Name	Pin #	Signal Name
1	MIC IN	2	Left
3	Right	4	GND
5	NC	6	DET

Package Overview

ECHELON TOUCH SCREEN
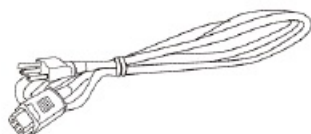
Power Cord

DC Power Supply

This product is intended to be supplied by a UL Listed Power Adapter, rated 12 Vdc, 2A minimum. (complied with LPS or PS2) Tma = 40 degree C minimum, an d the altitude of operation = 2000m minimum. If it needs further assistance wi th purchasing the power source, please contact to Echelon for further information.

About VESA Mount

 The ECHTES-101 conform to the "VESA Flat Display Mounting Interface Standard" which defines a physical mounting interface for touch computer, and corresponding with the standards of touch computer mounting devices, such as wall-mounted. The VESA mount is located on the back of this unit.

The equipment is only for wall mounting for horizontal (output connector facing down) and vertical mounting orientations (output connector facing left or right) when EUT without base.
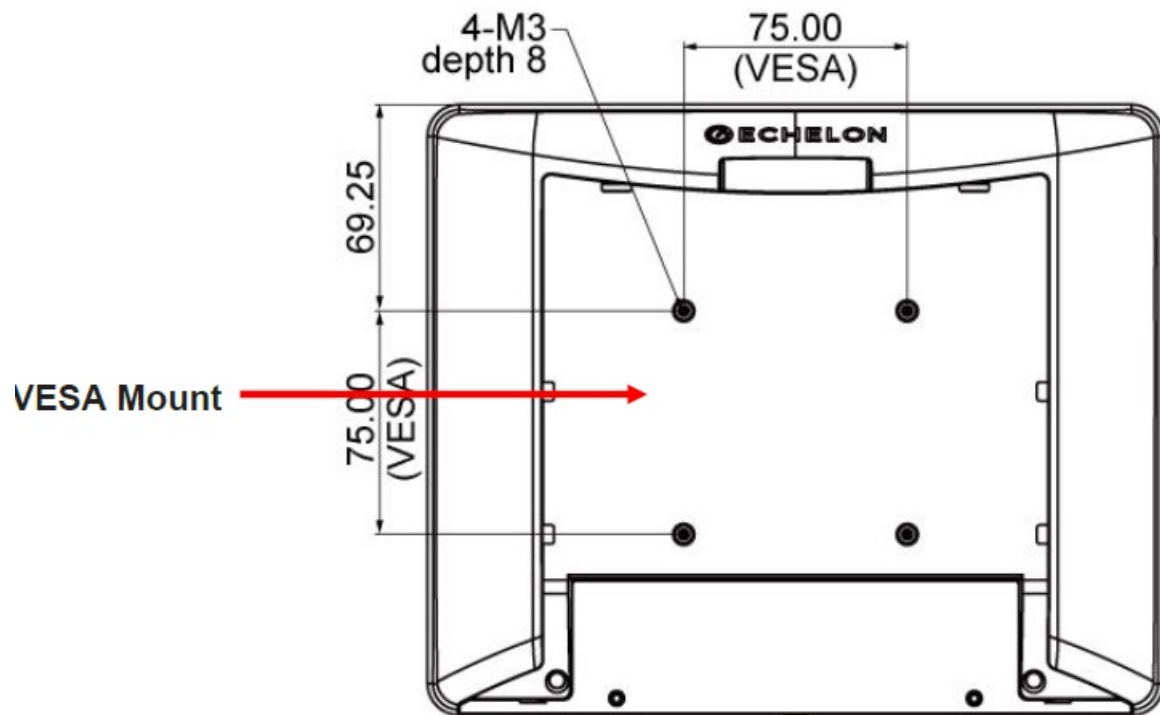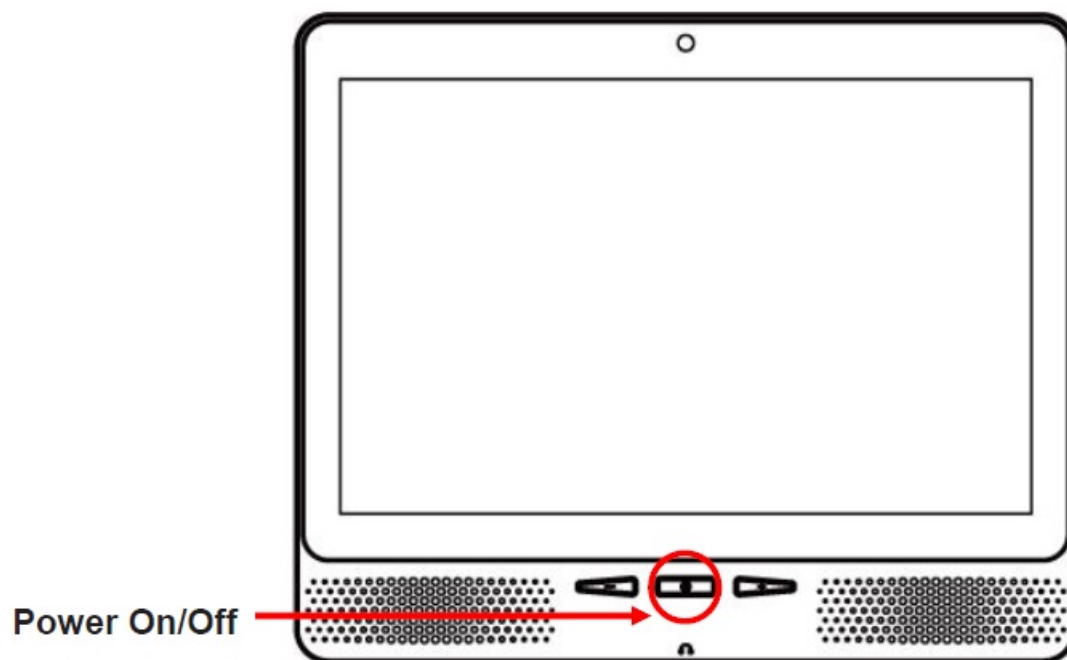
Please select the Echelon original screws!

The distance between the back cover surface and the bottom of the screw hole is 8 mm. Please use four M3 / 8 mm screws diameter with proper length to mount your monitor.

Note: The mounting stand must be able to support at least 2.34 lbs (1.063 Kg).
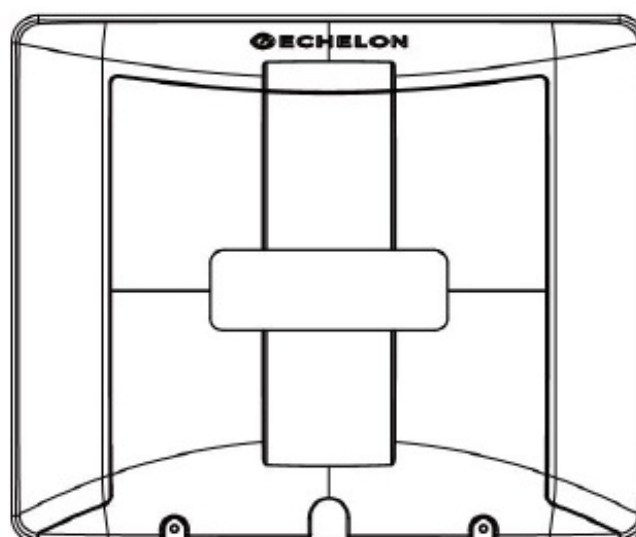
Power On / Off

Function	Description
Power on	Press the power button
Power off	Press the power button 2 sec and click power off.
Vol-	Press the vol- button to turn the volume down.
Vol+	Press the vol+ button to turn the volume up.

Dimension

Front View

Side View

246.86
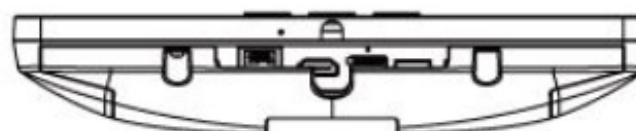218.46
20.70
2-R10.70
137.10
204.80
2-R10.48
1.25   45.78
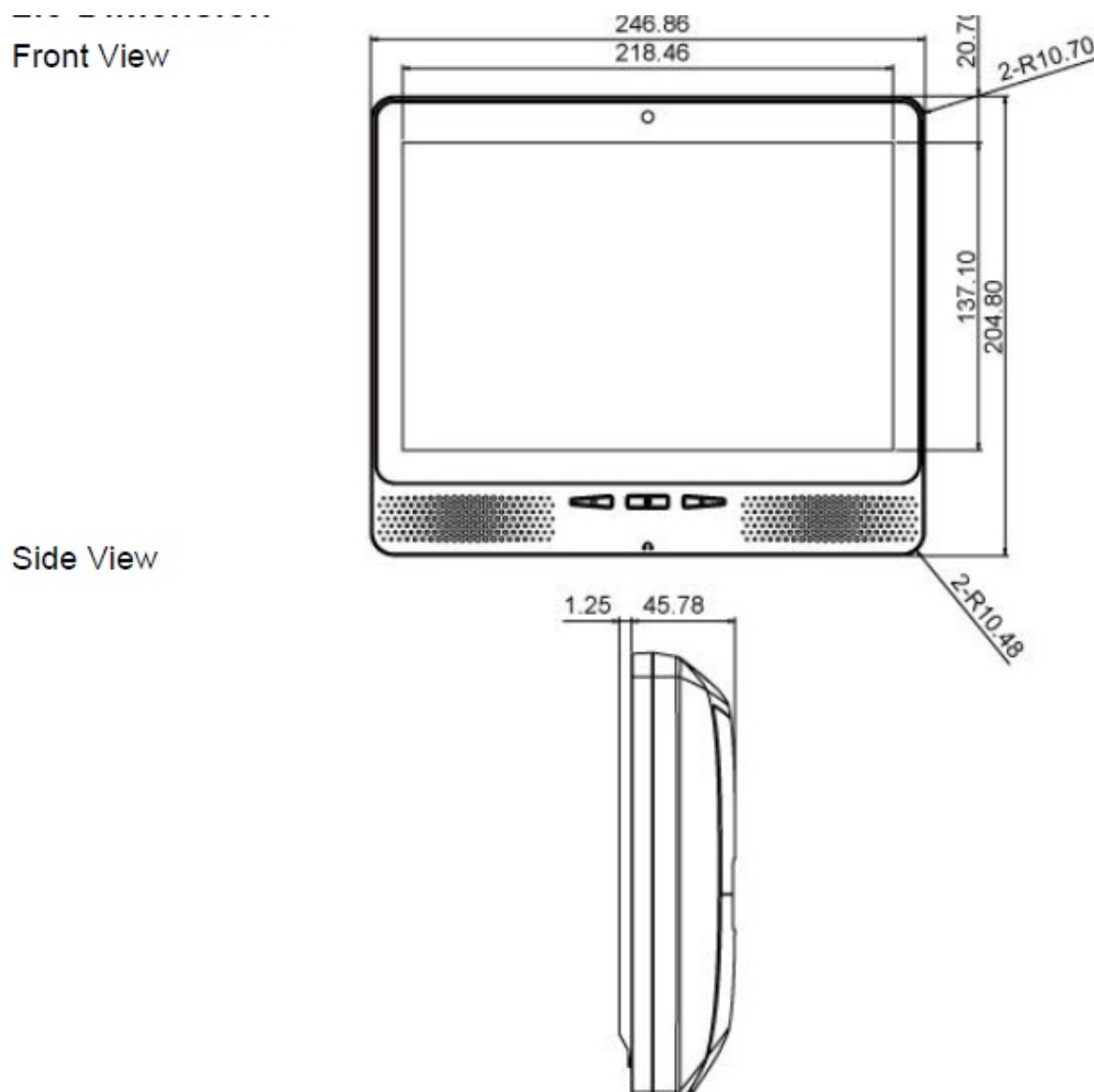
Rear View

Bottom View

Declaration of the Presence Condition of the Restricted Substances Marking

ECHELON TOUCH SCREEN ECHTES-101 Equipment name: ECHELON TOUCH SCREEN Type designation (Type): ECHTES-101						
Unit	**Restricted substances and its chemical symbols**					
	Lead (Pb)	**Mercury (Hg)**	**Cadmium (Cd)**	**Hexavalent c hromium (Cr+6)**	**Polybrominated biphenyls (PBB)**	**Polybrominated d iphenyl ethers (PBDE)**
Plastic Parts	○	○	○	○	○	○
Metal Parts		○	○	○	○	○
Cable component		○	○	○	○	○
LCD Panel		○	○	○	○	○
Touch Panel		○	○	○	○	○
PCBA		○	○	○	○	○
Software	○	○	○	○	○	○

Note 1 Exceeding 0.1 wt % and exceeding 0.01 wt % indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

Note 2 ○ indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

Note 3 The – indicates that the restricted substance corresponds to the exemption.

Documents / Resources

User Manual

ECHTES-101
ECHELON TOUCH SCREEN

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ECHELON ECHTES-101 Touch Screen [pdf] User Manual
ECHTES101, 2AWD4-ECHTES101, 2AWD4ECHTES101, ECHTES-101 Touch Screen, Touch Screen