



ECHELON ECHTES-156 Touch Screen User Manual

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ECHELON ECHTES-156 Touch Screen User Manual



About This Document

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Compliance Information For FCC (USA)

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.

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 important announcement

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 and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 15cm the radiator your body. This device and its antenna(s) must not be co-located or operation 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 cleaning.
- Use a soft cloth moistened with mild detergent to clean the product housing.
- Use only the qualified power adapter that comes with your device.
- Disconnect the power plug from AC outlet if the product is not going to be used for an extended period of time.

Don't:

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

Caution

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

Product Introduction

Overview

The ECHTES-156 is a thinner 15.6" touch computer that offers a unique screw less design with expandability and flexibility, making expansion and accessory installation much easier. The versatility of ECHTES-156 is an exceptional choice for applications in all fitness sectors.

Feature

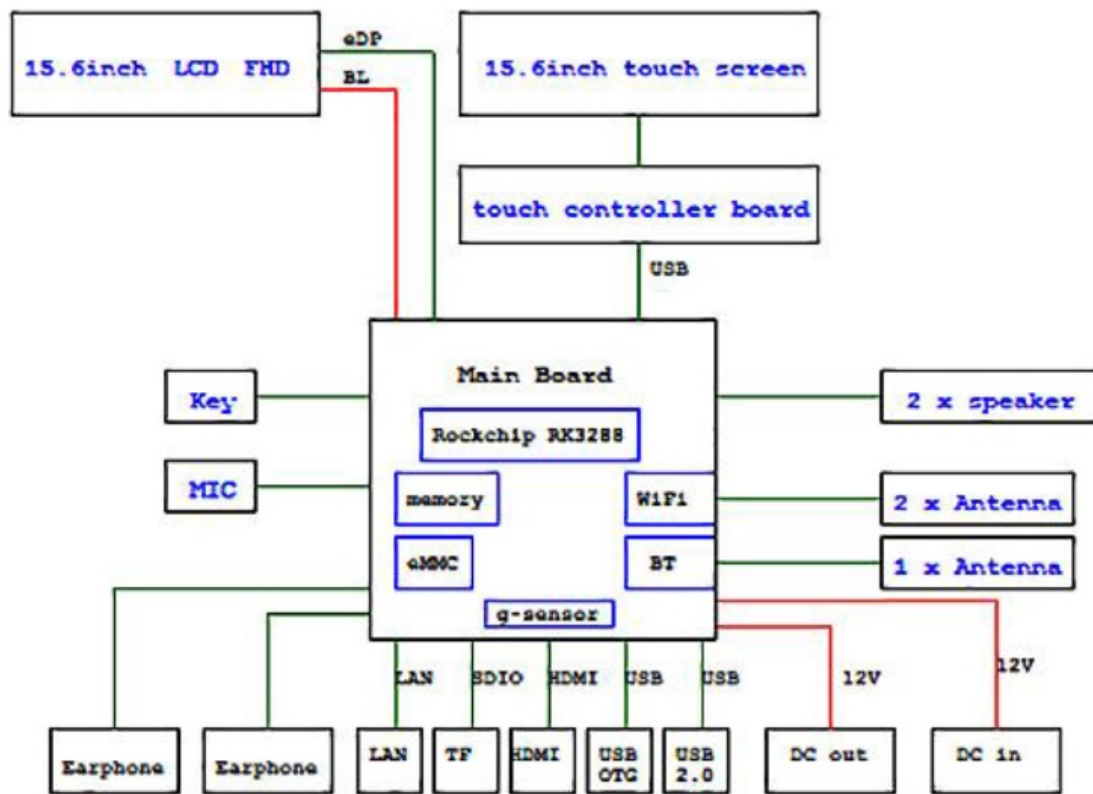
- Support Rock chip RK3288 processor.
- Support Wi-Fi 802.11ac 2T2R & BT5.0 1T1R.
- Support 5MP FF camera.
- Support Screen rotation.
- Unique screw less design for better user experience.
- Patented I/O design for better wiring management while implementation

Specifications

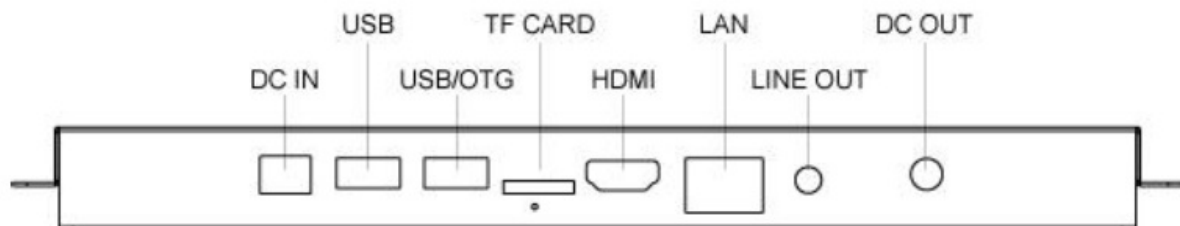
System	
CPU	Rock chip RK3288, Quad-core Cortex-A17 up to 1.8GHz
GPU	Mail-T760 MP4
Memory	4GB dual channel LPDDR3
Storage	16GB eMMC
Input Power	DC in 12V/4A 2PIN
Display	2lane eDP, resolution up to 1920x1080P60
Touch	15.6inch P-Cap touch sensor , supports 10 fingers touch function.
Audio	2 x speaker (5W 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 12V DC out (12V/1A) 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	15.6" TFT LCD
Brightness (non-touch screen)	Typical 250 cd/m ² ; min. 200 cd/m ²
Brightness (P-CAP)	Typical 225 cd/m ² ; min. 180 cd/m ²
Number of Pixels	1920 (H) × 1080 (V)/ 60Hz
Environment	
Certificate	CE FCC IC LVD UL UKCA RF NOM RCM ANATEL
Mounting	VESA 100 mm x 100 mm
Dimension (W x H x D)	375.40 mm x 271.70 mm x 45.92 mm
Net Weight	1.8 Kg
Gross Weight	2.85 Kg

Block Diagram

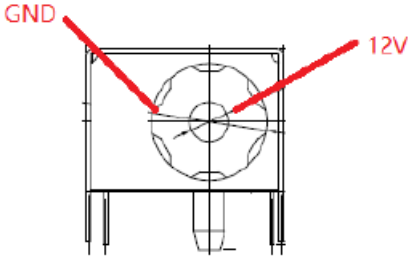


Interface Connectors



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

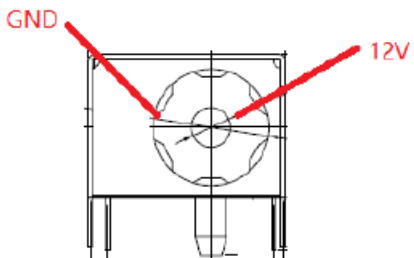
12V DC in



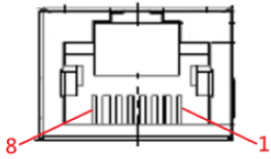
A schematic diagram of a 4-pin connector. Two red arrows point to the top pins: the left one is labeled 'GND' and the right one is labeled '12V'.

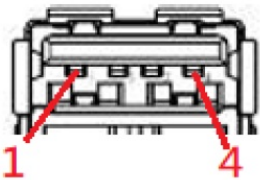
12V DC out	Pin #	Signal Name	Pin #	Signal Name
	1	12V	2	GND

12V DC out

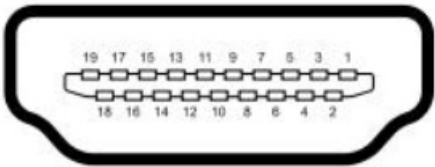


A schematic diagram of a 4-pin connector. Two red arrows point to the top pins: the left one is labeled 'GND' and the right one is labeled '12V'.

RJ45 for LAN	Pin #	Signal Name	Pin #	Signal Name
RJ45 for LAN 	1	TP1+	2	TP1-
	3	TP2+	4	TP3-
	5	TP3+	6	TP2-
	7	TP4+	8	TP4-

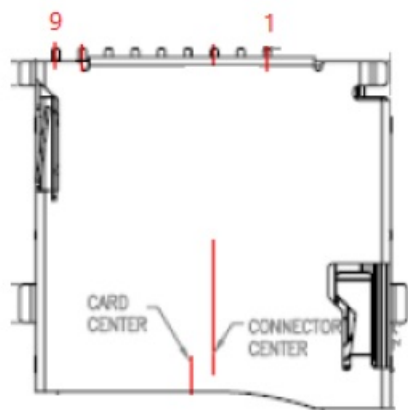
USB2.0	Pin #	Signal Name	Pin #	Signal Name
USB2.0 	1	USB5V	2	D-
	3	D+	4	GND

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		

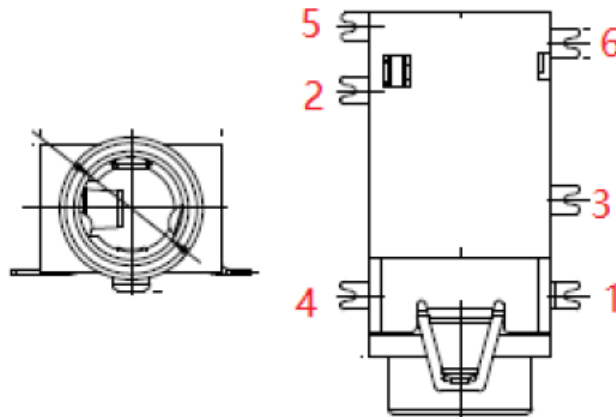
TF card



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

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

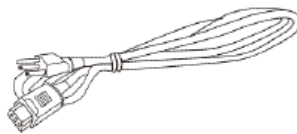
Line Out



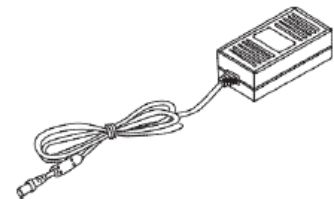
Package Overview



**ECHELON TOUCH
SCREEN**



Power Cord



DC Power Supply

Warning!

This product is intended to be supplied by a UL Listed Power Adapter, rated 12Vdc, 4A minimum. (complied with LPS or PS2) Tma = 40 degree C minimum, and the altitude of operation = 2000m minimum. If it needs further assistance with purchasing the power source, please contact to Echelon for further information.

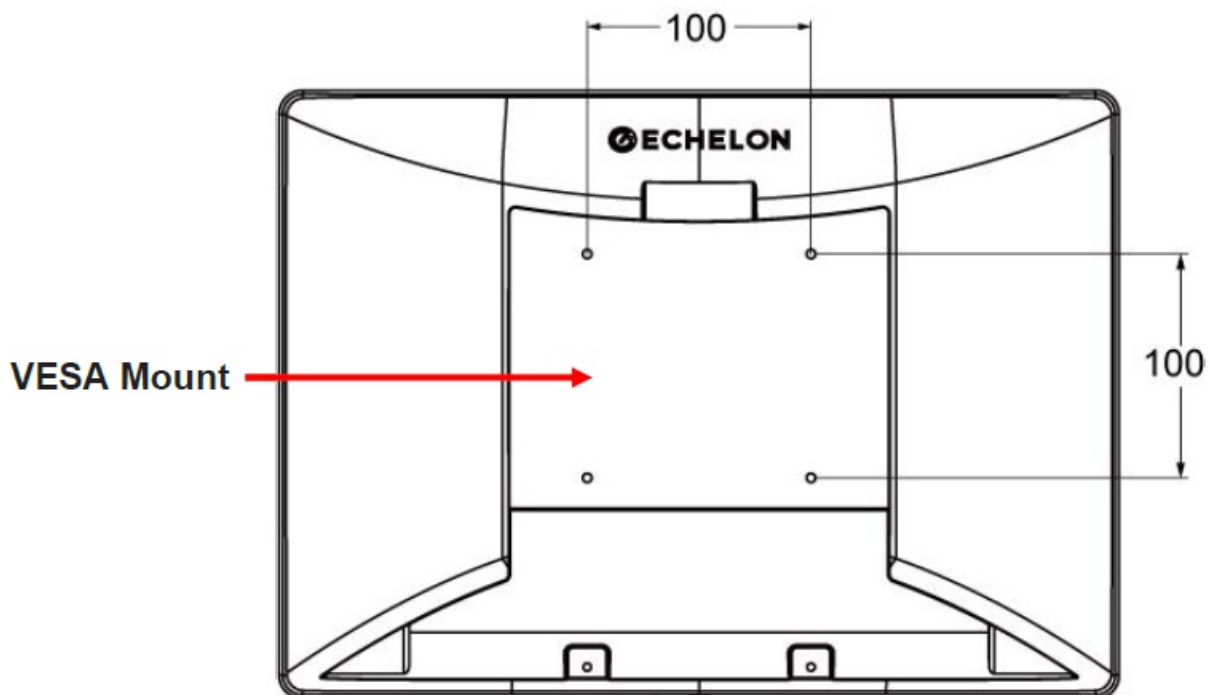
Product Installation

About VESA Mount

The ECHTES-156 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.



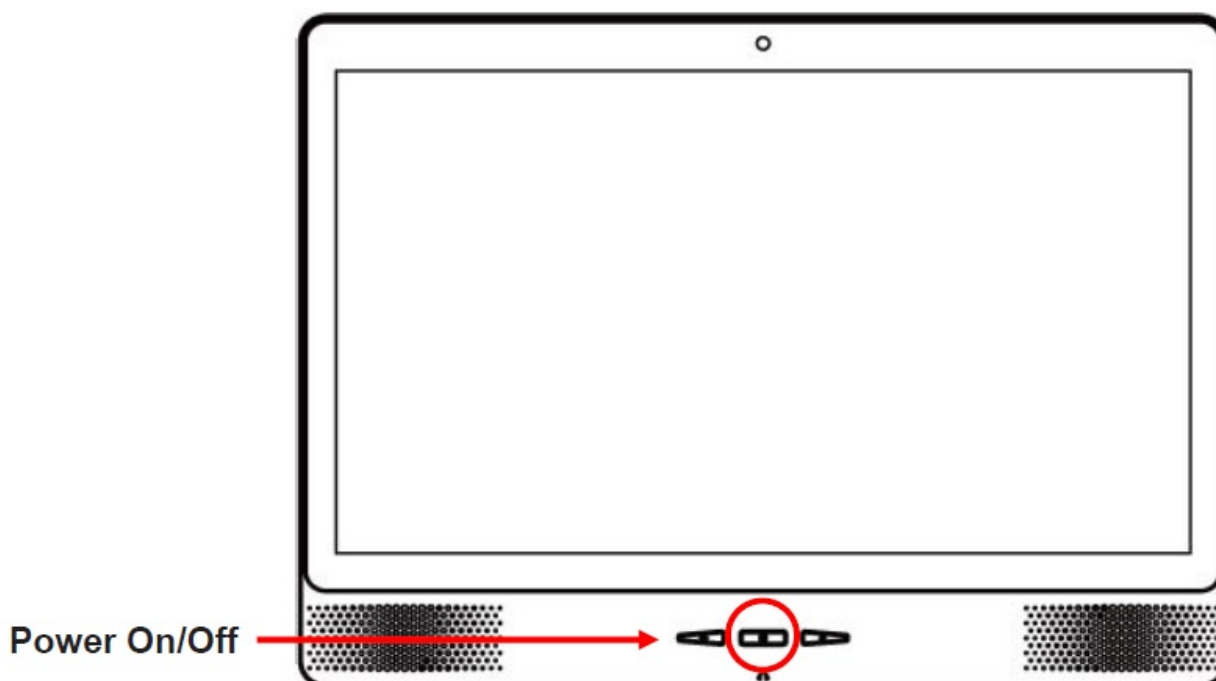
Warning!

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 M4 / 8 mm screws diameter with proper length to mount your monitor.

Note: The mounting stand must be able to support at least 3.97 lbs (1.8 Kg).

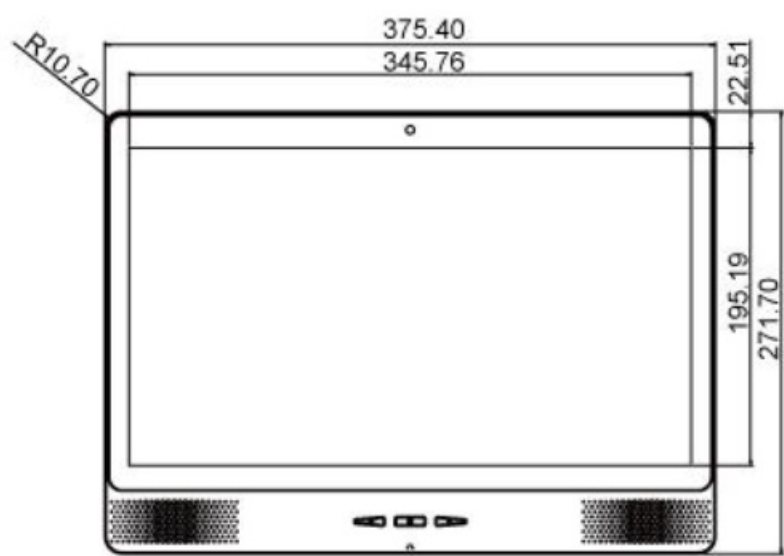
Power On / Off



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

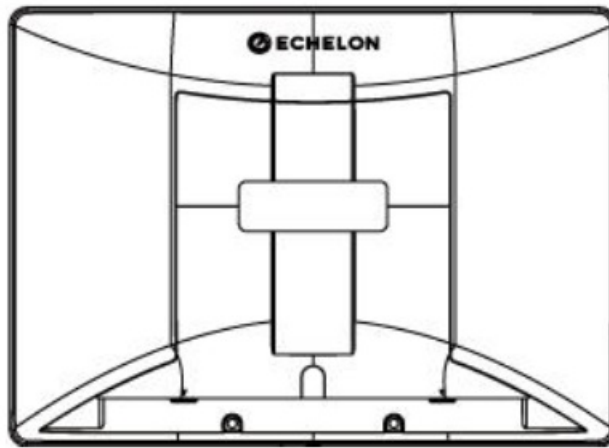
Front View



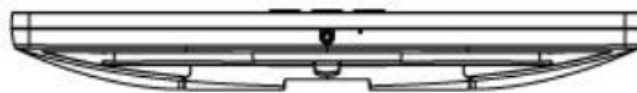
Side View




Rear View



Bottom View



Documents / Resources

<div data-bbox="159 1238 292 1272">User Manual</div> <div data-bbox="159 1294 292 1339">ECHTES-156 ECHTELON TOUCH SCREEN</div> <div data-bbox="159 1361 292 1462"> ECHTELON</div>	<div data-bbox="319 1317 1364 1395">ECHELON ECHTES-156 Touch Screen [pdf] User Manual ECHTES156, 2AWD4-ECHTES156, 2AWD4ECHTES156, ECHTES-156, Touch Screen</div>
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