Embedded Computer User Manual



Safety defended:

Properly maintain your system to guarantee its service life and reduce the damage risk.

- It should avoid the humidity and extreme temperature when using.
- Avoid being revealed making equipment for a long time under shoot straight at sunlight or intense ultraviolet ray lamp light.
- Avoid heavy impact or drop onto the ground.
- The LCD screen is very easy to shave a wound, avoid crashing please. Be sure not to use other sharp article to bump against touch screen.
- The fuselage is external, close a power source, allocate away mains lead if should be clean, quality cloth cleans with tiny wet soft when clean screen, in order to not lose trifling soft of cotton please.
- Strictly forbid the machine presumptuously dismantling or keeping the machine, otherwise, possibility damage in repair.
- Do not place with your equipment or accessory and other inflammable liquid,

the gas or other explosive articles place together, to avoid happening

dangerous.

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PRODUCT DESCRIPTION

Introduction

- ◆ 9.7" 4:3, 1024 ×768 high resolution, Touch screen control;
- ◆ Comply with IP 64 Waterproof Standard;
- Android 4.3/5.1 OS (Windows CE 7.0 or Linux 3.0.35 OS for optional);
- Micro SD card storage makes the data reliable, convenient and easy for expansion;

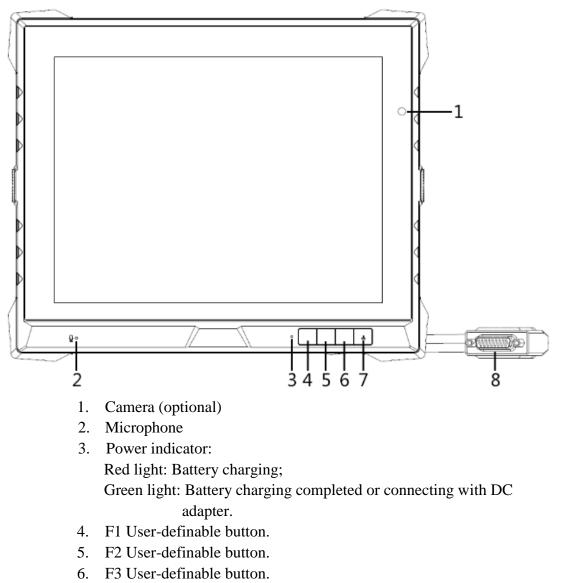
Optional Functions

- ♦ GPS (external)
- ♦ 5.0M camera (built-in)
- ◆ Microphone
- ◆ Wi-Fi 802.11 b/g/n (built-in)
- ♦ 3G/4G (built-in)
- ♦ Bluetooth (built-in)
- ◆ 5400mAh Li-ion battery (built-in)

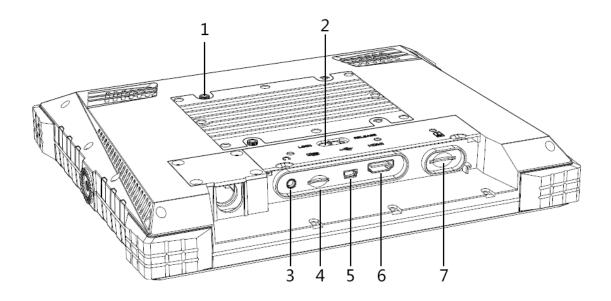
Parameter

Configuration		Parameter			
	CPU Freescale i	MX6q Quad core 1	.0GHz		
System configuration	Flash	8GB			
	RAM	1GB (Optional: 2	GB) DDR3		
	Micro SD card, S	SIM card			
	USB Device 2.0	, USB host 2.0			
	Earphone output port DC power input				
Interface	4×RS232 interface				
	(optional RS485/RS422 interface) 4×Gpio input, 6×Gpio output HDMI				
	Ethernet and POE interface				
Touch Panel	Capacitive				
Display	9.7" LVDS				
Screen Resolution	1024×768				
Brightness	350cd/m ²				
Contrast	900:1				
Viewing Angle	178 % 178 °(H/V)			
Power supply	DC 9-36V	With Battery	DC11-36V		
Power Consumption (Normal mode)	≤9W				
Power Consumption (Charging mode)	≤24W				
Working	-				
Temperature	-20℃-60℃				
Storage Temperature	-30°C-70°C				
Dimension (LWD)	252 × 511 × 37 ((mm)			
Weight	1340g				

Parts Description

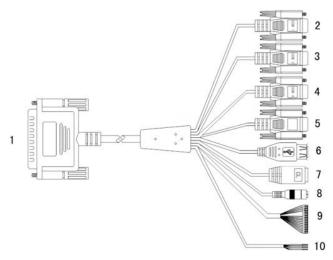


- 7. Power on/off: Long press to power off.
- 8. Extended cable.



- 1. 75MM VESA.
- 2. Cover switch.
- 3. Earphone jack: to connect with earphone.
- 4. Micro SD card slot: insert micro SD card to store pictures and other data.
- 5. Mini USB port: To connect with USB cable.
- 6. HDMI out.
- 7. 3G/4G card slot: insert 3G/4G SIM card to connect with wireless network.

Extended Cable Specification



No.	ltem		S	peci	fication	۱			
1	Convertor	To connect with device cable							
2	Com 1 serial port	RS232 serial port							
3	Com 2 serial port	RS232 serial port or GPS port							
4	Com 4 serial port	RS232 or RS422 serial port switch							
5	Serial port	RS232 or RS485 serial port switch							
6	USB host port	For data trans	For data transmitting						
7	LAN port	For network of	connec	tion					
8	Power	To connect w	ith DC	C ada	pter				
9	Gpio port	~	1		2	3		4	
		Gpio input (0~5V)	Gpio_	62	Gpio_56	Gpio_	166	Gpio_84	
			Br&V	N	B&W	LG	r	Р	
			5	6	7	8	9	10	
		Gpio output	Gpio	Gpi	o Gpio	Gpio	Gpi	o Gpio	
		(0V or 5V)	_67	_17	2 _45	_178	_93	3 _66	
			W	Gr	Pu	Bl	G	Y	
		Cric CND	11				I		
		Gpio GND]	В			
			13		14	15		16	
		CAN	CAN1	Н	CAN1L	CAN2	H	CAN2L	
			0		R	Br		R&W	
10	Definition port		1		2	3		4	
		RS422	G (A	.)	Y (B)	O (Z)	R (Y)	

Ps: O "orange", W "white", R "red", Br "brown", B "black", LG "light green", P "pink", Gr "gray", Pu "purple", Bl "blue", G "green", Y "yellow".

SIM Card & Memory Card Instructions

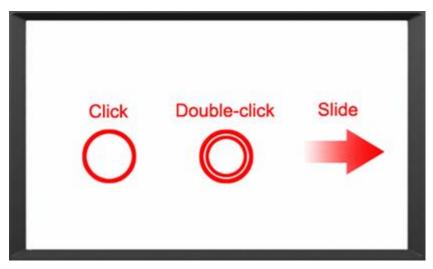
- In order to avoid damaging of the 3G/4G card & memory card, please insert the card smoothly and push slightly before you draw it out.
- The memory card will be heat after long time working.
- If you don't correctly use the memory card or cut the power when it being read, maybe some data will be damaged.
- If you don't correctly use 3G/4G card or cut the power when it being read, the network will be interrupted.
- If you do not use SD card for a long time, please put it into packing box. Insert the memory card as shown as

follows,

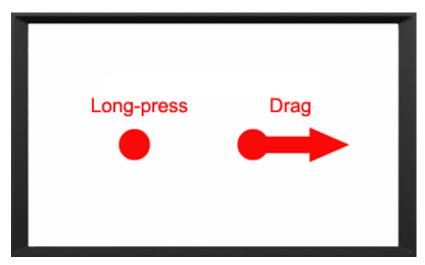
- Find the location of the 3G/4G card or memory card slot, part of the metal contacts facing down forward until it snaps into place.
- Insert the 3G/4G card or memory card smoothly to avoid of damaging.
- Please do NOT insert micro SD card into 3G/4G card slot, otherwise, micro SD will be hard to be taken out, and may be damaged.
- ◆ 32G micro SD supported.

Basic Operation

Click and Slide



Long-press and Drag



Delete



Long-press the application icon, and drag to the Home screen, then drop to the recycle bin on the right to delete this app.



MENU

Icon Bar

Icon bar shows on the top of screen.

lcon	Name	Description
ţ	USB	Status of USB device plugged-in.
D	micro SD	Status of micro SD card plugged-out.
	card	Status of micro SD card plugged-in.
	Wi-Fi	Wi-Fi signal connection and status of signal weakness or strength.
Itti	Signal	Signal disconnection or connection failure.
ull	- Signal	Signal connection and status of signal weakness or strength.
	Battery status	Battery and charging status
4:59	Time	Current time

MENU SETTING



inaner Sear	Wallpaper	Manage apps	Add
aper Sear	aper	Wallp	

1. Click **O** to add.

Add to Home screen
P Shortcuts
Widgets
Folders
Wallpaper

1-1. Add application shortcut to Home screen according to user's need.

0	<u>a</u>		Q	Q	Ó
Add	Manage apps	Wallpaper	Search	Notifications	Setting

- Image: Constraint of the start of
- Image: Constraint of the second se

- 2. Click is to manage applications.
- 2-1. Click download: To view and manage downloaded applications.

2-2. Click All Applications: To view and manage all applications.

Downloaded	All	On SD card	Running	2-3. Click SD Card: 10 view an
GPS Test 704KB				downloaded in SD card.
Touch Test 792KB				
2.14MB				
	SD card	storage		
36KB used			1.6GB free * 📶 📔 10:32	2-4. Click 🖾 Running: To
Downloaded	All	On SD card	Running	applications which are running.
Settings 1 process and 0 services			12MB	
wdj_install 1 process and 1 service			8.2MB 09:14	
360 2 processes and 2 services			11MB 07:53	
360MobileSafe 1 process and 2 services			16MB 01:35	
Music 1 process and 2 services			2.5MB 09:20	
96MB used	RÆ	M	210MB free	
Some used			2 tomb free	
• • R		Q, I	D (Ö)	3. Click I to launch wallpaper.
Add Manage apps	Wallpaper Touch	Search Notif	fications Settings	5. Chek m to launch wanpaper.
Select wallpaper from			والمحمر والت	3-1. Choose favorite wallpaper.
Gallery				

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Live wallpaper

Wallpaper

2-3. Click SD Card: To view and manage application

To view and manage nning.

12

0	Q		Q	•	Ö
Add	Manage apps	Wallpaper	Search	Notifications	Settings

Touch

4. Click to search.

1 📀 🛜 😰				🕴 📊 🧯 10:33
Google				
q w ²	e ³ r	t ^s y	u i	° ° p
a s	d	fg	h j	k I
🚖 🕺 Z	x	c v	b n	m 💌
?123 📀				Go
U.S.	1		•	1 and an

4-1. Input the keywords, and click search automatically.

Manage apps	Wallpaper	Q Search	Notifications	O Settings
	Manage apps	Manage apps Wallpaper	Manage apps Wallpaper Search	Wallpaper Search Notifications

5. Click to launch Notice function.

September 30, 2013	* iii 🧕 10:33 Clear
Ongoing	
 [↓] Connected as a media device Touch for other USB options 	45%
USB debugging connected Select to disable USB debugging	
Notifications	
My Uploads Uploads finished	10:30 AM

5-1. The notice bar shows system, running and error notice. (Notice bar hides on the top of screen, drag and pull down from the screen top to show it.)

Add	R Manage apps	Wallpaper	Q Search	Notifications	Settings	6. Click to launch setting.
					Touch	
2 Settings			_		* iill 🧧 10:36	6-1. Setting according to users' needs.
	s & networks					
🗲 Call sett	ings					
◄) Sound						
🖚 Display						
🖽 Locatior	n & security					
🖄 Applicat	ions					
@ Account	s & svnc					
👩 🛜 📀 🖞 Wireless & netwo	rk settings				* jil 🧧 10:36	6-1-1. Click "Wireless & network settings" to launch
Ethernet Turn on ethernet						setting of wireless and network.
Airplane m Disable all wirele						
WiFi					~	
Wi-Fi settin Set up & manage	gs wireless access points					
Bluetooth					✓	
Bluetooth s	settings ons, set device name &	discoverability				
Tethering 8	portable hots	spot				

* 👬 📋 10:37 6-1-2. Launch "Call settings" after 3G SIM card inserted. $\overline{\bullet}$

Voicemail service Voicemail settings Settings for My operator Other call settings Call forwarding Additional settings Internet call settings

👩 🌍 🌚 🕴 Call settings

Voicemail

Fixed Dialling Numbers Manage Fixed Dialling Numbers

😰 🛜 🏵 Y	* ill 🦲 10:39
Sound settings	
General	
Silent mode All sounds except media & alarms	
Vibrate Only in Silent mode	
Volume	
Incoming calls	
Phone ringtone	
Notifications	
Notification ringtone	
Feedback	
😰 👼 🖗 🔮 住 Display settings	* iii <mark>1</mark> 10:39
Brightness	

Auto-rotate screen

Animation

Passwords

Visible passwords

6-1-3. Click "Sound settings" after 3G card connected, to set sound function.

6-1-4. Click "Display settings" to set Brightness, Auto rotate screen, Animation, XEC DLS Control and Screen timeout.

6-1-5. Click "Location & security settings" to set location and password management.

- 6-1-6. Click "Application settings" to launch background
 - and auto sync setting when network connected.

All window animations are shown	
XEC DLS Control	
Screen timeout Adjust the delay before the screen turns off automatically	
🙋 🎅 옷 📀 🖞 Location & security settings	* iii 🧰 10:40
My Location	
Use wireless networks See location in applications (such as Maps) using wireless networks	
Use GPS satellites When locating, accurate to street level	~
Screen unlock	
Set up screen lock Lock screen with a pattern, PIN or password	

🙋 🗟 🥸 भू Application settings	* iii 🧧 10:41
Unknown sources Allow Installation of non-Market applications	
Manage applications Manage and remove installed applications	
Running services View and control currently running services	
Storage use View storage used by applications	
Battery use What has been using the battery	
Development Set options for application development	

👩 🛜 📀 🖞	*	١١	10:42
Privacy settings personal data			
Factory data reset Erases all data on phone			
🙋 🚰 📀 갖 Language & keyboard settings	*	îΠ	10:45
Language & Reyboard settings Language settings			
Select language English (United Kingdom)			
User dictionary			
Keyboard settings			
Android keyboard Android keyboard Settings			
ତ୍ତି 🗟 📀 ହ	*	ŭđ	10:47
Date & time settings			
Automatic Use network-provided values			
Set date 30/09/2013			
Select time zone			
Set time			
Use 24-hour format			
1:00 P.M.			
Select date format 31/12/2013			\bigcirc

6-1-7. Click "Privacy Settings" to restore factory settings when problem occurred.

Please DO backup all important files and data before restore factory settings. Otherwise, files and data will be deleted and restored to defaults.

6-1-8. Click "Language & keyboard Settings" to set language and keyboard functions.

6-1-9. Click "Date & time settings" to set date and time automatically and manually.

Accessories

Standard:



Optional:



1. GPS antenna	1piece (connect with COM2 port on the extended cable)
2. VESA rail slot	1piece
3. VESA bracket	1piece
4. 5000mA Li-ion battery	1piece (built-in)
5. Micro SD (TF) card	1piece

Trouble Shooting

Power Problem

Cannot boot up

- 1. Wrong cable connection
 - a) Connect Extended cable with device first, and connect the AC end of DC adapter with DC input port of Extended cable, then the other end of DC adapter connect with power plug socket.
- 2 Bad connection
 - a) Check every connection and socket of power source

Screen Problem

- 1. No picture on screen.
- 2. The application reaction time is too long and cannot be activated when clicked.
- 3. The image appears delay or still when switching.

Please restart your system if the device has any problem as described above.

- 4. Display screen is misty
 - a) Please check whether the display screen surface has dust filth or not. Please simply wipe with clean and soft cloth.

Note: due to constant effort to improve products and

product features, specifications may change

without notice.