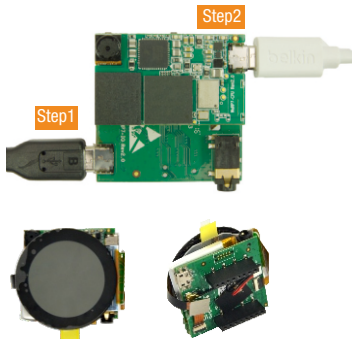## Board Set Up

01. Connect one end of the USB cable to the micro-B USB OTG (Debug) connector (4) on IO Board and the other end to a USB port of your PC. Start an hyperterminal program like Tera Term, connect to the COM port for your board and change the baud rate to 115200.
02. Connect a 5V USB power source to the micro-B USB OTG (Power) connector (18) on CPU Board to power WaRP7. You should see two Green LEDs lighting.The hyperterminal window should now display UBoot and Linux boot messages.
03. Connect the MIPI DSI flex cable (21) to the MIPI DSI connector in mark (5);
04. Connect Touch flex cable (22) to the LCD touch interface in mark (6);
05. For more help on WaRP7 board setup, consult the Hardware guide at www.element14.com/warp7

Please visit www.element14.com/warp7 for additional information and resources including:

Documentation
Hardware guide, data sheets, schematics and more

Software and Development Tools
Download the lastest tools, source code, Android and Linux, images for programing the WaRP board

Discussion and Support
Find answers to FAQ, post questions and contribute to the community.
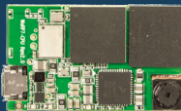
WaRP7

Next Generation Internet of Things and Wearable Development Platform

WaRP7 development platform has been designed to facilitate and expedite internet of things and wearable design.
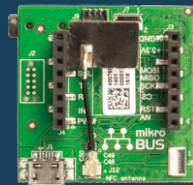
The Kit comprises of:
- WaRP7 CPU board
- WaRP7 IO board
- Lithium-Polymer battery
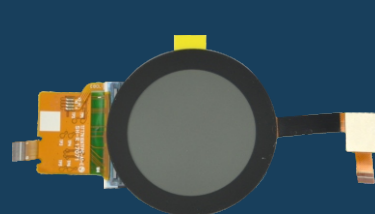- [Optional] Color LCD with touch (available separately)
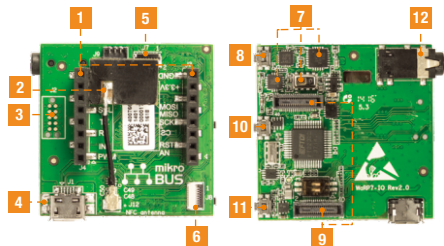
WaRP7 CPU Board

WaRP7 IO board

Lithium-Polymer battery

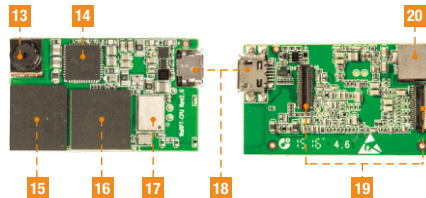
Color LCD with touch (available separately)

WaRP7 IO Board

01. Expansion Connectors
02. NFC Antenna
03. JTAG Connector
04. Debug USB
05. MIPI DSI Connector
06. LCD Touch Interface
07. Sensors (Altimeter,

Acclerometer-Magne-tometer, Gyroscope)
08. S1 - Reset Button
09. Board to board connector
10. S2 - User Defined button
11. S 3 - On/Off
12. Audio Jack

WaRP7 CPU Board

13. MIPI CSI Camera
14. Power Management IC
15. Memory 8GB eMMC w/ 4GB LPDDR3
16. i.MX7S (ARM® Cortex®-A7 and Cortex®-M4 cores)

17. Wireless Module Wifi 801.11b/g/n + BT/BLE
18. USB OTG (power)
19. Board-to-Board Connectors
20. MIPI CSI Camera Connector

Color LCD with touch
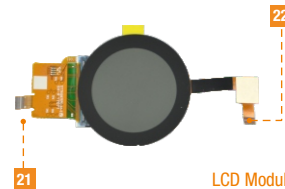
21. MIPI DSI interface
22. I2C Touch interface

LCD Module is designed for Warp7 product. it's an integrated module with display and touch features.

LCD Type: TFT
Input voltage: 2.8V
Backlight Type: LED
Interface Type: MIPI/I2C
Active Area: 31.9mm*31.9mm
Number of Dots: 320RGBX320
Power consumption: 226mW