Intersect Hardware Parts & Installation

Hardware Architecture Parts List

Edge Server (HPE Edgeline EL20)
- Intel Core i5-4300U CPU
- 4x POE 100Mbit NICs
- 4x 60fps 720p cameras OR optional 30fps low light 720p cameras w/IR support

1 or more: Streaming Devices
- 0 to many: Static cameras including CrowdOptic Eyes, security cameras, and GoPro
- 0 to many: Wearable devices including Sony SmartEyeglass, Vuzix M300, Epson Moverio BT-300, and so forth
- Optional: Wireless two-way audio headset

Optional: Other Smart Devices and Sensors
- 0 to many: Biometric sensors like heart rate monitors, thermometers with digital output
Hardware Architecture Installation

The CrowdOptic Intersect is intended to be installed in a vehicle but may optionally be installed in an office environment.

1. Unpack the EL20. Notify CrowdOptic immediately if any parts are missing.
2. Mount the HPE Edgeline Server in a suitable location inside a vehicle (car, bus, truck, etc.) or in an office environment.
3. Attach 1 or more USB cameras to one of the USB sockets (up to 4 available) on the EL20.
4. Attach the main antenna.
   a. The wires labeled LTE attach to the sockets on the EL20 labeled WWAN.
   b. The wires labeled Wi-Fi attach to WAN on the EL20.
   c. The GPS wire attaches to the geospatial co-processor (Pi in a metal box); pay attention to the stickers showing top and front when positioning it.
5. The two additional rooftop antennas as well as the one internal antenna attach to the three stacked sockets on the far side of the EL20.
6. The power on the geospatial co-processor goes into the wall.
7. Plug in the power supply. (If you are running off 12v unscrew the power adapter from the brick and run the 12v through the adapter)
8. To add a SIM card: flip the EL20 on its back, and remove the 6 screws and black metal plate. Look for the SIM slot next to the LTE card (only one is populated).
9. As of now the card is flashed for AT&T but if you use a different carrier let us know and we will provide a solution for you.
   a. You may need a Windows machine and dongle.