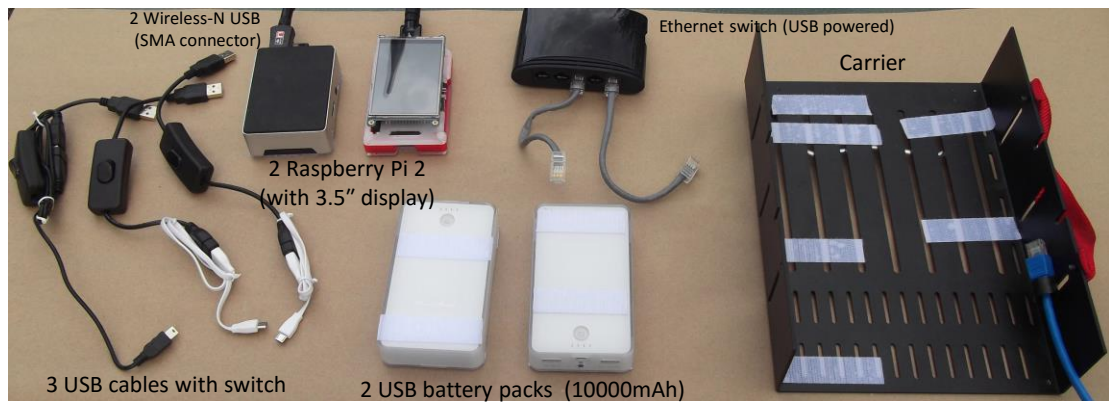


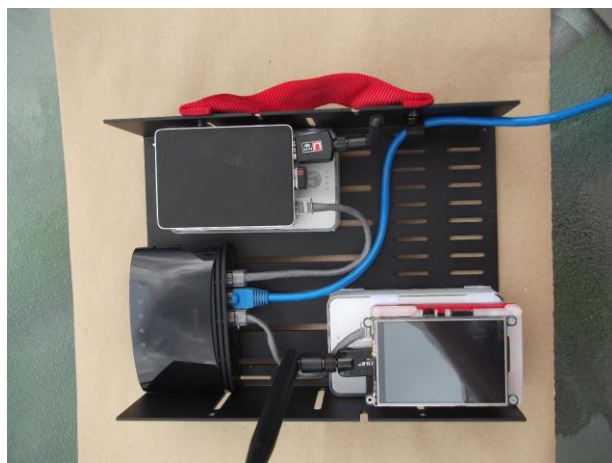
Ad Hoc Switch and PBX

Michel Barbeau

Material







Omnidirectional antennas

6.5 dBi



7 dBi



Directional antennas

10 dBi

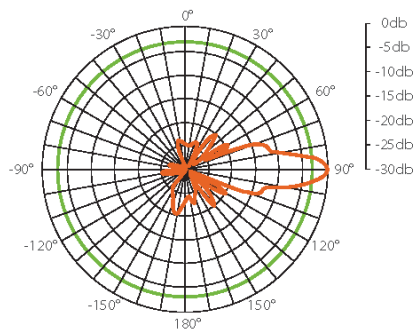


24 dBi

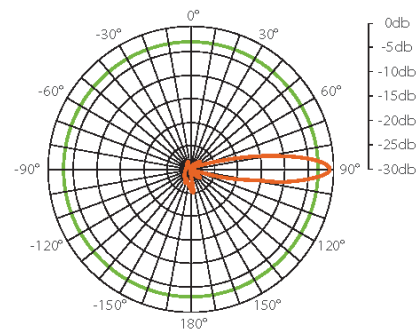


Radiation Patterns:

V-Plane Co-Polarization Pattern



H-Plane Co-Polarization Pattern



Nepean marina to Aylmer marina (5 km)



- 24 dBi (in linear form 251)
- At 50 milliwatts
 - effective power 12.6 watts
- At 5 watts
 - effective power 1256 watts

Software

Hostname VE3EMB-1

eth0 172.27.2.1

wlan0 10.37.5.20

54 Mbps ESSID BrodbandHamnet-2-v3 Mode Ad-Hoc Freq 2.412 GHz



Rasbian and HSMM-Pi

- High-Speed Multimedia (HSMM)
- Optimized Link State Routing (OLSR)
- hsmmpi.wordpress.com

Software

Hostname raspbx

eth0 172.27.2.9

wlan1 10.37.5.19

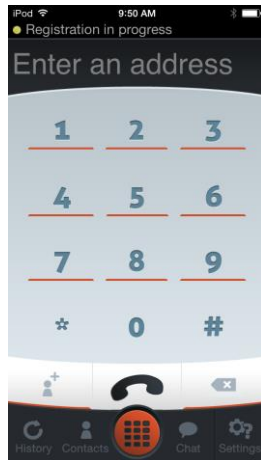
54 Mbps ESSID BrodbandHamnet-2-v3 Mode Ad-Hoc Freq 2.412 GHz



Rasbian and Asterisk

- Voice over IP (VoIP)
- Private Branch Exchange (PBX)
- www.raspberry-asterisk.org

VoIP Phone



- Linphone for Android, Linux, iOS, Mac OS and Windows
 - www.linphone.org