

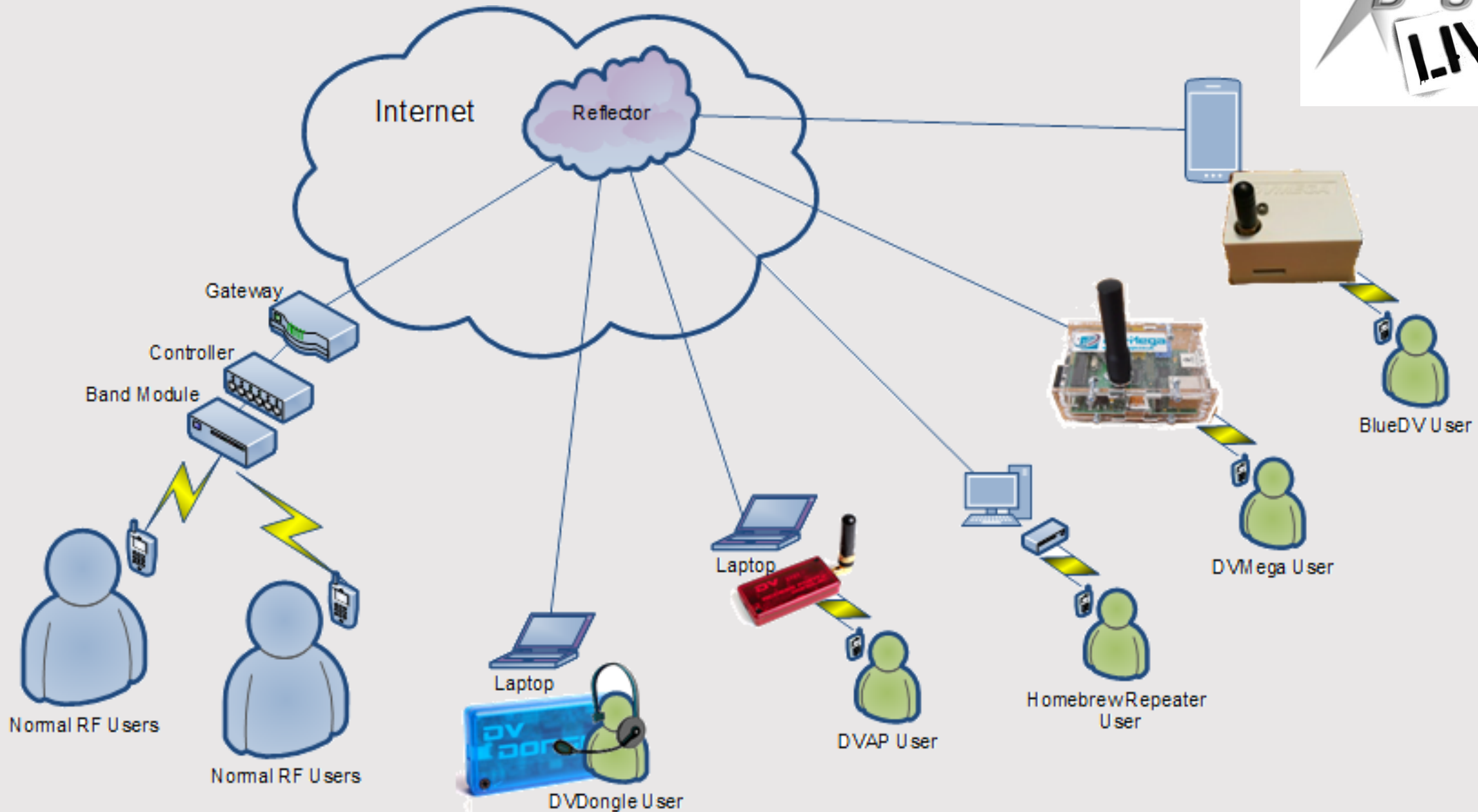


D-STAR Devices

John Davis WB₄QDX

Robin Cutshaw AA₄RC

D-STAR Access Methods



DV Dongles



- Different styles available from Internet Labs (DV Dongle), NW Digital (Thumb DV) and MoenComm (Star*DV)
- Attaches to USB port on PC
- Accesses D-STAR network using sound card in PC connected to Internet



DVAPs



- DV Access Point is low power hotspot providing radio access to D-STAR network through PC
- Developed by Internet Labs (Robin Cutshaw, AA4RC)
- Connects to PC, Raspberry Pi by USB
- 10mW RF power for 100m range
- D-STAR radio uses standard commands for linking
- Software on PC, Pi (DVAPtool or DVAPnode)
- Internet access on PC, Pi to network

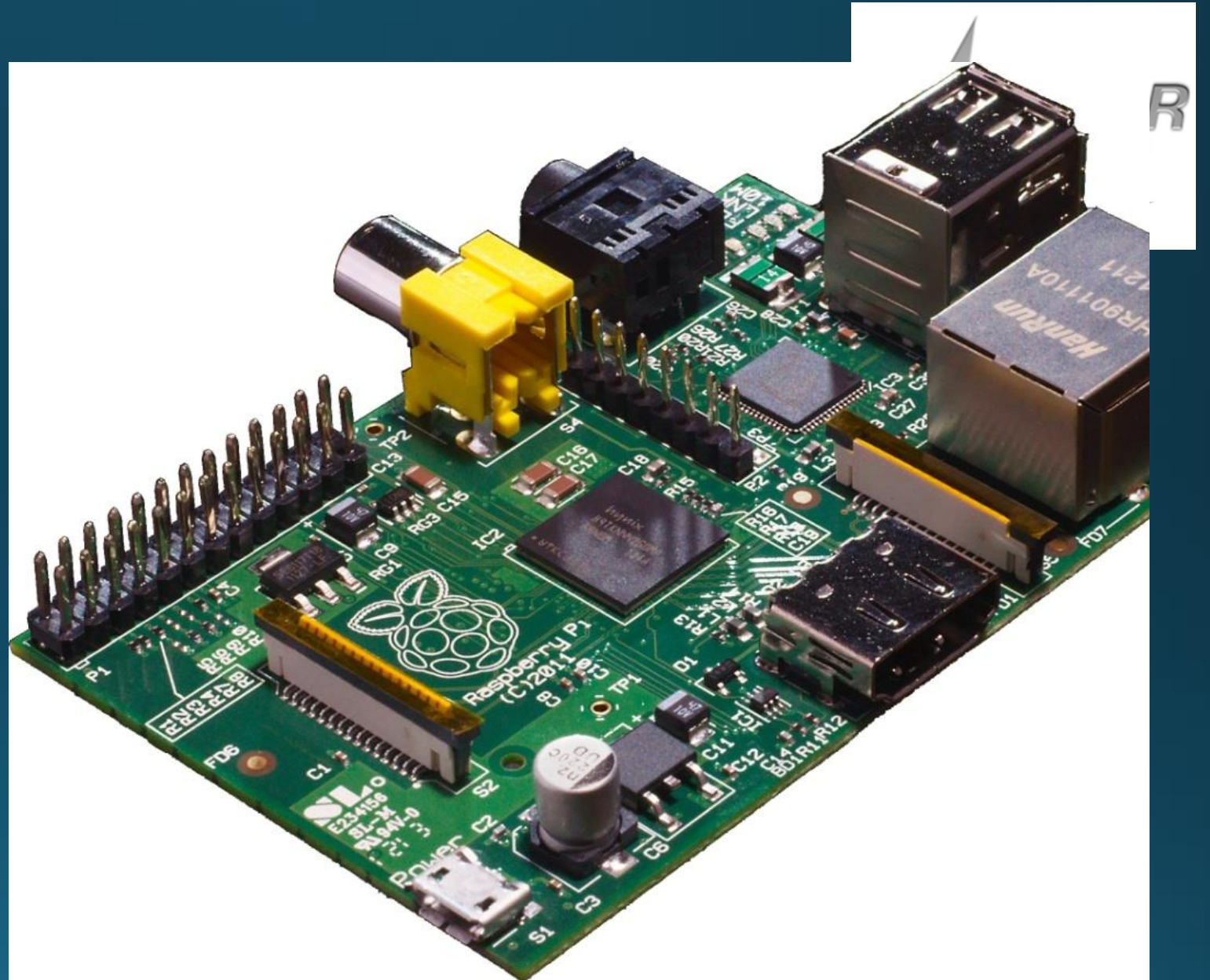
Using a DVAP

- Normal connection to DVAP is a PC, Laptop or Netbook (bulky) with Internet connection



Add a Raspberry Pi?

- Credit card sized Linux computer with SD Card slot, 2 USB, Ethernet and HDMI ports powered by 5VDC micro-USB adapter



Homebrew DVAP Package



Pelican 1050 or 1060 Case

USB Charger/5VDC Supply
Anker 10,000 mAH or
equivalent

USB Adapter
(120VAC to 5V USB)

Micro-USB Cable

Raspberry Pi Model B

DV Access Point

USB CLA (12V to 5V USB)



DHAP Mini Mega



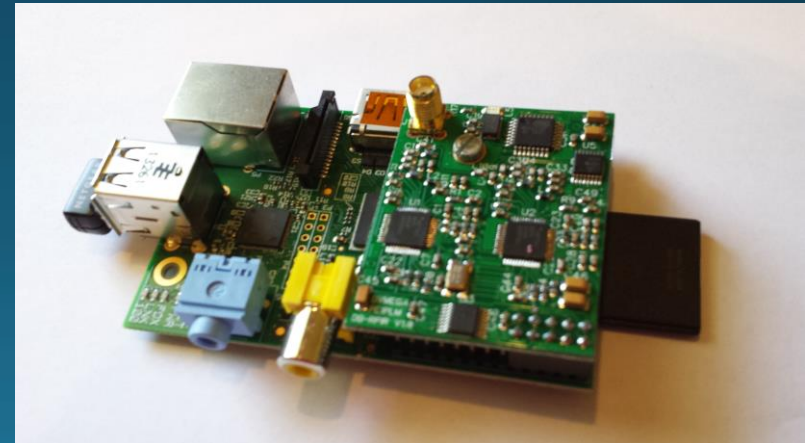
- Two versions available for DVAP or DV Mega
- Commercially available from Hardened Power Systems
<http://www.portableuniversalpower.com/DHAP.htm>
- Includes case, battery, Raspberry Pi
- User supplies DVAP or DV Mega



DV Mega



- Low power hotspot similar to DVAP (single or dual band versions)
- Attaches to Raspberry Pi GPIO connector (Pi Model B, B+, Pi 2) or Arduino
- SD card with OS and ircDDBgateway software
- New DVmega BlueSpot supports multi-mode (D-STAR, DMR)
- <http://www.dvmega.auria.nl/>



BlueDV



- DV Mega attaches to BlueDV board for self contained hotspot
- Bluetooth to smartphone for Internet connectivity
- D-STAR, DMR, Fusion, P-25
- Available at <http://www.pa7lim.nl/bluedv/>



OpenSpot



- Standalone
- DMR, D-STAR, Fusion
- Cross Modem (Fusion Radio on DMR channels)
- Web Interface



Multi-mode Devices DV4mini

- DVAP type device on USB stick
- SMA RF connection to antenna
- 100 mw transmitter
- Compatible with D-STAR, DMR and Fusion
- Available from Wireless Holdings
<http://wirelesshold.com/>

