



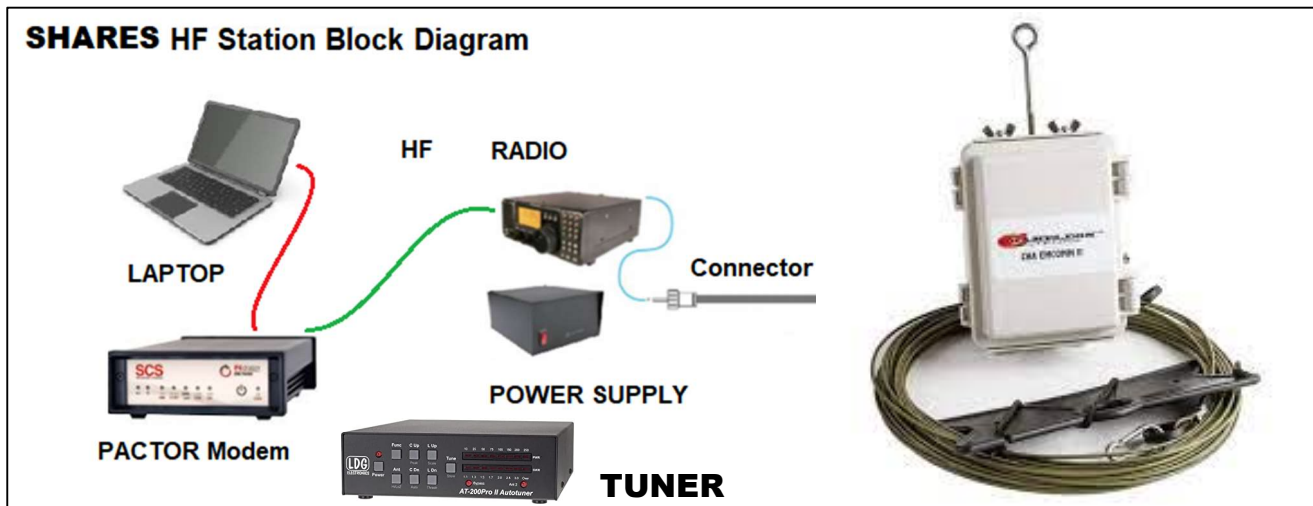
WASHINGTON STATE GUARD
BILL OF MATERIALS

Document Title: HF RADIO FIELD UNIT

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BILL OF MATERIAL(BOM) : HF RADIO PORTABLE UNITS

Objective: Use this BOM to identify critical components necessary to creating a portable radio unit Field Unit.



Note: BOM should be used as a guideline; MFR part numbers are starting points for investigating that individual component and alternatives may be used as appropriate for the site / build.

Field deployable Broadband Dipole Antenna:

1. Inverted "L" Antenna: CHA EMCOMM II V2

a) Quantity: 2

Price Estimate : \$ 385.00





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2. Stringing(Field) Gear

- Antenna Rope (Dacron or Polyester Rope)
 - a) Model: Synthetic Textiles (STI) ST-3/16-100
 - i. Size: 3/16" diameter
 - ii. Quantity: 100' per antenna
 - iii. Price estimate: \$60 (total)



- Wristrocket Wire Guide
 - a) *Recommended*):
 - i. Model: WRB-45
 - 1. Quantity: 2
 - 2. Price estimate 75.00 (total)





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Wheeled Case

Gator Cases Pro Series 19" Depth 8U
Rolling Rack Case with Recessed Wheels

Quantity: 2

Cost Estimate: \$ 785.00 total



Rack Mount Shelves

Quantity: 4
Cost \$ 40.00
Total \$160.00



Power strips

StarTech.com 8 Outlet Horizontal 1U Rack
Mount PDU Power Strip for Network Server
Racks - Surge Protection -

Quantity: 2
Cost \$ 110.00





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- b) 1/4-20 Nuts
- Quantity: 6
 - Price Estimate: \$5



3. Coaxial Cable:

- 100' coax is provided with Antenna Kit.**
- If length required is greater than 100':
 - Type: RG-213 or equivalent
 - Length: [length as required]



- c) Connectors: PL-259 connectors (quantity 2)



- d) Price dependent on Coax selected, length required, and connectors required by coax size and type.

4. Lightning Protection:

Estimate \$ 125.00

- Model: Polyphase IS-NREMCO Surge protector
 - Quantity: 2
 - Price Estimate: \$365.00



- Grounding rod and wire



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7. **Documentation:**

- Antenna installation manual
- Coaxial cable and Connector specifications
- Lightning protection system documentation

HF Radio Base Station:

1. **HF Radio Transceiver:**

- Model: Icom IC718 with MARS/CAP modification
- Quantity: 2
- Price Estimate: \$1900



MICROPHONE

HD-518

Quantity: 2

Cost Estimate: \$ 130.00





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2. **Power Supply:**

- Model: Powerwerx SS-30DV 30Amp
- Quantity: 2
- Price Estimate: \$ 325



3. **Antenna Tuner: SEE BELOW ITEM # 6**

- Model: N/A
- Quantity: N/A

4. **Data Modem: Required for SHARES; Not required for Voice-only**

- Model: Farallon SCS P4dragon DR-7400
- Quantity: 2
- Price Estimates. \$3400



5. **Laptop: Required for SHARES; Not required for Voice-only**

- Model: Any laptop may be configured for modem use.
- Quantity: 1
- Price Estimate: Model specific.- IT to supply

6. **AT-200PROII LDG Electronics Automatic Antenna Tuner 1.8-54 MHz, 5-250 Watts SSB and CW. 100 watts on 6M. 75**

Quantity: 2

Price Estimate: \$ 735.00





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6. Power Backup:

- BLF-1209WS KIT 12V (12V, 9Ah LFP Battery) w/CH25.00 CHARGER
- Quantity: 2
Cost: \$ 185.00

MISC.

Rack Mounted custom AV/Patch Panels

Star Tech.com 8 Outlet Horizontal 1U Rack
Mount PDU Power Strip for Network Server
Racks - Surge Protection -
Quantity 2
Estimated cost \$ 285.00

Misc cables, connectors, solder,adapters

Quantity Misc

Cost: \$ 125.00

**Total Estimate-(2) Portable Units@ \$ 8872.00 total for 2 units
plus tax if applicable**