



Using Gator Box Pro for a Portable Radio Shack

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AE5AS**



Present Radio Shack



There is not an indoor permanent radio shack.

Probably some room for improvement.



Improved Present Radio Shack





Radio Support Requirements

Have or plan to acquire the following radios

- **Kenwood TH-D7A HT – 70CM, 2M**
- **ICOM 751A – 10M, 12M, 15M, 17M, 20M, 30M, 40M, 80M, 160M**
- **ICOM IC-W2A (2 each) HT – 70CM, 2M**
- **Yaesu FT-991A – 70CM, 2M, 6M, 10M, 12M, 15M, 17M, 20M, 30M, 40M, 60M, 80M, 160M**
- **Yaesu FT2DR HT – 70CM, 2M**
- **Yaesu FTM-400XDR – 70CM, 2M**
- **ICOM-7610 - 10M, 12M, 15M, 17M, 20M, 30M, 40M, 80M, 160M**
- **Also more handhelds – GT-5R, ID-52A, AT-878UVII, K5PLUS**
- **(future ?) Kenwood TH-D75A – 70CM, 1.25M, 2M**

The focus had been on the radios that are not HT.



Planning Info for Equipment

Equipment Description	Weight lbs	Width"	Height"	Depth"	Amps	Volts, DC
ICOM-751A Transceiver	18.74	12.68	4.72	15.16	20	13.8
ICOM SP Speaker	6.6	7	5	10.5		
MFJ-949E Antenna Tuner	3.86	10.55	3.5	9	<1	12
Signalink USB	0.4125	3.6	1.6	3.2		
Yaesu FT-991A Transceiver	9.5	9	3.2	11.625	20	13.8
Yaesu MMB-890 Bracket for FT-991A	1	9.75	4.125			
Yaesu Speaker	2.2	4.33	3.14	9.9		
MFJ-939Y Autotuner, HF	2.5	6.5	2.875	8.375		
RIGblaster Advantage	1.5	6.25	1.25	4		
Yaesu FTM-400DXR Transceiver	2.64	5.5	2.8/1.16	.8/4.9	13	13.8
Yaesu MLS-200-M10 Speaker	1.4	3.15	3.15	3.54		
Zumspot Dual Band in C4Labs case	1	3	2.5	1.5	<1	5
RIGblaster Advantage						
MFJ-4115 Power Supply	1.5	3.75	2.25	7.75	15	13.8
RIGrunner 4004 USB	0.42	4.7	3	1.4	40	13.8
MFJ-4245MV 45A Power Supply	7.25	7.5	4.75	9	45	12
BiennoBLF-1215A 12V, 15Ah Battery	4.3	4.2	3.2	5.5	60	12
Epic PWRgate 12V Battery Charger	0.35	4.5	3.375	1.25	40	12
RIGrunner 4012	0.9625	11.75	3	1.4	40	12



Planning Info for Equipment

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ICOM-751A Transceiver	18.74	12.68	4.72	15.16	20	13.8
ICOM SP Speaker	6.6	7	5	10.5		
MFJ-949E Antenna Tuner	2.96	10.55	2.5	0	1	12
Signalir						
Yaesu I						13.8
Yaesu I						
Yaesu I						
MFJ-8						
RIGblat						
Yaesu I						13.8
Yaesu I						
Zumspc						5
RIGblat						
MFJ-41						13.8
RIGrunner						13.8
MFJ-4245MV 45A Power Supply	7.25	7.5	4.75	9	45	12
BiennoBLF-1215A 12V, 15Ah Battery	4.3	4.2	3.2	5.5	60	12
Epic PWRgate 12V Battery Charger	0.35	4.5	3.375	1.25	40	12
RIGrunner 4012	0.9625	11.75	3	1.4	40	12



The Challenge:

18.74 lbs, 12.68" W x 4.72" H x 15.16" D



So What to Put the Equipment in?



Tac-Comm



So What to Put the Equipment in?



Tac-Comm



iPortable



So What to Put the Equipment in?



Tac-Comm



iPortable



Pelican Cases



So What to Put the Equipment in?



Tac-Comm



iPortable



Pelican Cases



Hammo Can



So What to Put the Equipment in?



Tac-Comm



iPortable



Pelican Cases



Hammo Can



Portable 19" Rack Case



So What to Put the Equipment in?



Tac-Comm



iPortable



Pelican Cases



Hammo Can



Portable 19" Rack Case



Gator Box Pro



Gator Box Pro

RU means Rack
Unit 1.75" High

- **Gator Cases are made for traveling musicians (think Rock 'N' Roll) and their roadies**
- **Designed to carry amplifiers, mixers, microphones, etc.**
- **A bunch of different styles and sizes**
- **All pretty much use standard 19" wide racks**
- **Gator Box Pro is their rugged case**
 - **Shallow (13") and Deep (19")**
 - **2RU to 12RU**
 - **Some with wheels, but they reduce inside space**

The Decision was Gator Box Pro 4RU-8RU without wheels.



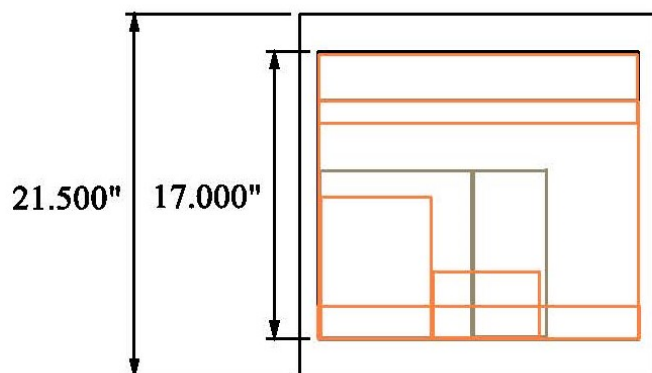
Planning Info for Gator Box Pro

Equipment Description	Weight				Volts,	
	lbs	Width"	Height"	Depth"	Amps	DC
Gator Box Pro G-PRO-8U-19	18	21.25	17	21.5		
Gator Box Pro G-PRO-6U-19	15	21.25	13.5	21.5		
Gator Box Pro G-PRO-4U-19	12	21.25	10	21.5		
Shelf, Slotted, 14" deep, 2RU	5.73	17.25	3.5	14		
Shelf, Slotted, 12" deep, 2RU	5.49	17.25	3.5	12		
Shelf, Slotted, 10.5" deep, 1RU	4.15	17.25	1.75	10.5		
Power Strip, 110VAC, 1 RU	5.4	19	1.75	4		
NovexComm LED Light Bar, 1 RU	1	19	1.75	1.25	<1	12
NovexComm Fan & SO239 Panel, 2RU	1	19	3.5	1	<1	12
AC Infinity Blank Panel, 2RU	0.5	19	3.5	0.5		
Drawer, 2RU	21	19	3.5	14.5		
Drawer, 1RU	10.75	19	1.75	14		



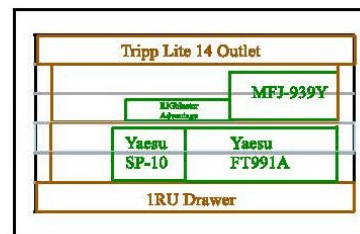
Original FT-991A 6RU Gator Box Pro CAD

Top View

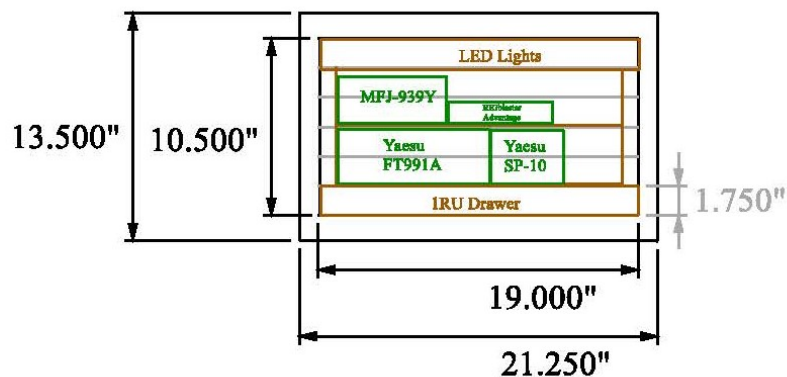


Gator Rack Pro Series
Roto Molded Polyethylene
6U, 19" Deep Molded Rack
G-PRO-6U-19

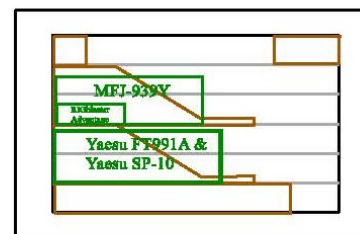
Rear View



Front View



Side View





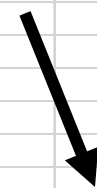
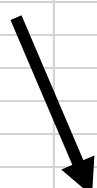
Initial Gator Box Pro Weights

Item	Weight	8U ICOM 751A		6U FT991A		6U Power		4U FTM400XDR	
		Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt
Gator Box 8U	18	1	18		0		0		0
Gator Box 6U	15		0	1	15	1	15		0
Gator Box 4U	12		0		0		0	1	12
2U Shelf Vented 16" D	2.5	1	2.5		0		0		0
2U Shelf 14" D	2.5	1	2.5		0		0	1	2.5
2U Shelf 12" D	2.5	1	2.5	2	5	1	2.5		0
1U Shelf 10.5" D	1		0		0		0	1	1
2U Drawer 13.38" D	13.6		0		0	1	13.6		0
1U Drawer 14" D	10.75		0	1	10.75		0		0
2U Blank Panel	1		0		0	1	1	1	1
1U Blank Panel	0.59	1	0.59	1	0.59		0		0
1U LED Light Panel NovexComm	1	1	1	1	1		0	1	1
1U Power Panel	5.4	1	5.4	1	5.4	1	5.4	1	5.4
ICOM 751A	18.74	1	18.74		0		0		0
ICOM SP-3 Speaker	6.6	1	6.6		0		0		0
MFJ 934E Ant Tuner	3.86	1	3.86		0		0		0
Signalink USB	0.4125	1	0.4125		0		0		0
FT991A	9.5		0	1	9.5		0		0
Yaesu MMB-890 Bracket	1		0		0		0		0
SP-10 Speaker	2.2		0	1	2.2		0		0
MFJ 949Y Auto Tuner	2.5		0	1	2.5		0		0
RIGblaster Advantage	1.5		0	1	1.5		0	1	1.5
FTM400XDR	2.64		0		0		0	1	2.64
MLS-200-M10 Speaker	1.6		0		0		0	1	1.6
Zumspot Dual Band Kit	0.5		0		0		0	1	0.5
C4 LABS ZUMspot Dual Bd Cas	0.25		0		0		0	1	0.25
HRO ZUMspot Power-ALL	0.25		0		0		0	1	0.25
MFJ-4115 15A Pwr Sup	1.5		0		0		0	1	1.5
RIGrunner 4004 USB	0.42		0		0		0	1	0.42
MFJ-4245MV 45A Pwr Sup	7.25		0		0	1	7.25		0
BLF-1215A 12V,15Ah Battery	4.3		0		0	1	4.3		0
Epic PWRgate	0.36		0		0	1	0.36		0
RIGrunner 4012	0.96		0		0	1	0.96		0
			62.1025		53.44		50.37		31.56



Gator Box Pro Weight Problem

Item	Weight	8U ICOM 751A		6U FT991A		6U Power		4U FTM400XDR	
		Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt
Gator Box 8U	18	1	18		0		0		0
Gator Box 6U	15		0	1	15	1	15		0
Gator Box 4U	12		0		0		0	1	12
2U Shelf Vented 16" D	2.5	1	2.5		0		0		0
2U Shelf 14" D	2.5	1	2.5		0		0	1	2.5
2U Shelf 12" D	2.5	1	2.5	2	5	1	2.5		0
1U Shelf 10.5" D	1		0		0		0	1	1
2U Drawer 13.38" D	13.6		0		0	1	13.6		0
1U Drawer 14" D	10.75		0	1	10.75		0		0
2U Blank Panel	1		0		0	1	1	1	1
1U Blank Panel	0.59	1	0.59	1	0.59		0		0
1U LED Light Panel NovexComm	1	1	1	1	1		0	1	1
1U Power Panel	5.4	1	5.4	1	5.4	1	5.4	1	5.4
ICOM 751A	18.74	1	18.74		0		0		0
ICOM SP-3 Speaker	6.6	1	6.6		0		0		0
MFJ 934E Ant Tuner	3.86	1	3.86		0		0		0
Signalink USB	0.4125	1	0.4125		0		0		0
FT991A	9.5		0	1	9.5		0		0
Yaesu MMB-890 Bracket	1		0		0		0		0
SP-10 Speaker	2.2		0	1	2.2		0		0
MFJ 949Y Auto Tuner	2.5		0	1	2.5		0		0
RIGblaster Advantage	1.5		0	1	1.5		0	1	1.5
FTM400XDR	2.64		0		0		0	1	2.64
MLS-200-M10 Speaker	1.6		0		0		0	1	1.6
Zumspot Dual Band Kit	0.5		0		0		0	1	0.5
C4 LABS ZUMspot Dual Bd Cas	0.25		0		0		0	1	0.25
HRO ZUMspot Power-ALL	0.25		0		0		0	1	0.25
MFJ-4115 15A Pwr Sup	1.5		0		0		0	1	1.5
RIGrunner 4004 USB	0.42		0		0		0	1	0.42
MFJ-4245MV 45A Pwr Sup	7.25		0		0	1	7.25		0
BLF-1215A 12V,15Ah Battery	4.3		0		0	1	4.3		0
Epic PWRgate	0.36		0		0	1	0.36		0
RIGrunner 4012	0.96		0		0	1	0.96		0
			62.1025		53.44		50.37		31.56

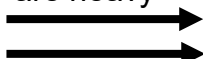




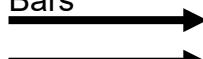
Gator Box Pro Weight Reduction

Use smaller
boxes

Drawers
are heavy



Fewer Light
Bars



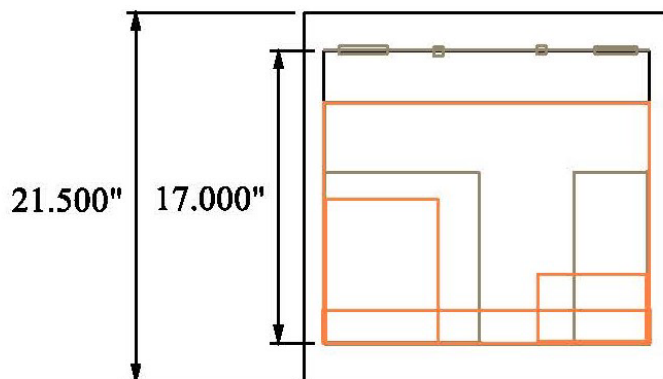
Fewer Power
Panels

Item	Weight	8U ICOM 751A		6U FT991A		6U Power		4U FTM400XDR	
		Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt
Gator Box 8U	18	1	18		0		0		0
Gator Box 6U	15		0	1	15	1	15		0
Gator Box 4U	12		0		0		0	1	12
2U Shelf Vented 16" D	2.5	1	2.5		0		0		0
2U Shelf 14" D	2.5	1	2.5		0		0	1	2.5
2U Shelf 12" D	2.5	1	2.5	2	5	1	2.5		0
1U Shelf 10.5" D	1		0		0		0	1	1
2U Drawer 13.38" D	13.6		0		0	1	13.6		0
1U Drawer 14" D	10.75		0	1	10.75		0		0
2U Blank Panel	1		0		0	1	1	1	1
1U Blank Panel	0.59	1	0.59	1	0.59		0		0
1U LED Light Panel NovexComm	1	1	1	1	1		0	1	1
1U Power Panel	5.4	1	5.4	1	5.4	1	5.4	1	5.4
ICOM 751A	18.74	1	18.74		0		0		0
ICOM SP-3 Speaker	6.6	1	6.6		0		0		0
MFJ 934E Ant Tuner	3.86	1	3.86		0		0		0
Signalink USB	0.4125	1	0.4125		0		0		0
FT991A	9.5		0	1	9.5		0		0
Yaesu MMB-890 Bracket	1		0		0		0		0
SP-10 Speaker	2.2		0	1	2.2		0		0
MFJ 949Y Auto Tuner	2.5		0	1	2.5		0		0
RIGblaster Advantage	1.5		0	1	1.5		0	1	1.5
FTM400XDR	2.64		0		0		0	1	2.64
MLS-200-M10 Speaker	1.6		0		0		0	1	1.6
Zumspot Dual Band Kit	0.5		0		0		0	1	0.5
C4 LABS ZUMspot Dual Bd Cas	0.25		0		0		0	1	0.25
HRO ZUMspot Power-ALL	0.25		0		0		0	1	0.25
MFJ-4115 15A Pwr Sup	1.5		0		0		0	1	1.5
RIGrunner 4004 USB	0.42		0		0		0	1	0.42
MFJ-4245MV 45A Pwr Sup	7.25		0		0	1	7.25		0
BLF-1215A 12V,15Ah Battery	4.3		0		0	1	4.3		0
Epic PWRgate	0.36		0		0	1	0.36		0
RIGrunner 4012	0.96		0		0	1	0.96		0
			62.1025		53.44		50.37		31.56



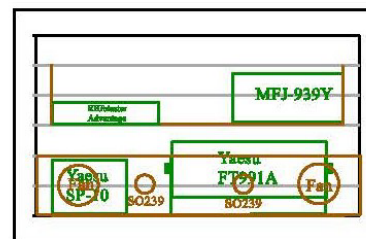
Final FT-991A 6RU Gator Box Pro CAD

Top View

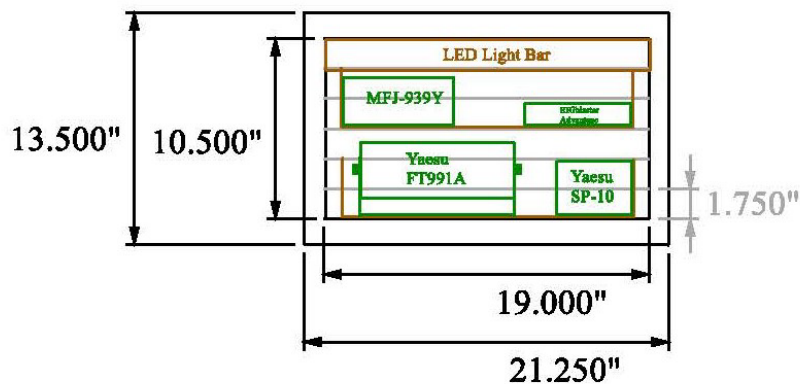


Gator Rack Pro Series
Roto Molded Polyethylene
6U, 19" Deep Molded Rack
G-PRO-6U-19

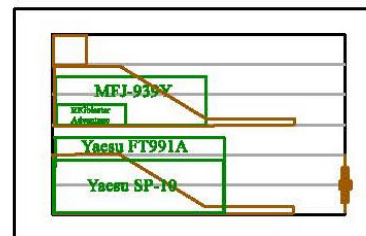
Rear View



Front View



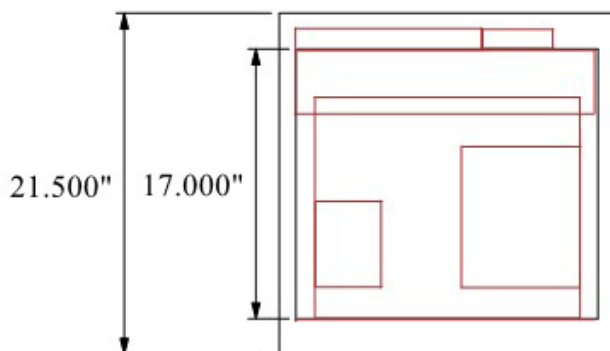
SideView





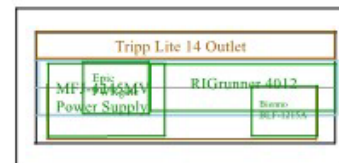
Final Power 4RU Gator Box Pro CAD Drawing

Top View

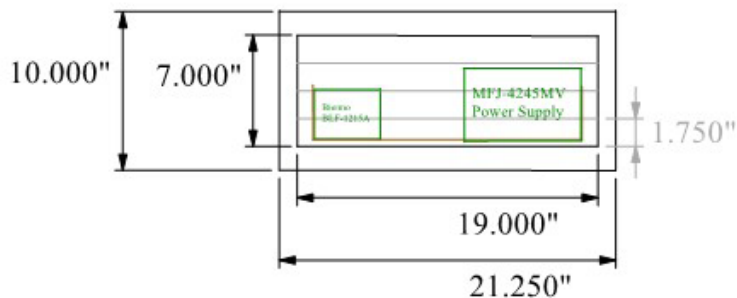


Gator Rack Pro Series
Roto Molded Polyethylene
4U, 19" Deep Molded Rack
G-PRO-4U-19

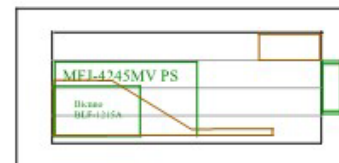
Rear View



Front View



SideView





Current Gator Box Pro Weights

Item	Weight	4U ICOM 751A		4U ICOM 751A AUX		6U FT991A		4U Power		4U FTM400XDR	
		Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt
Gator Box 8U	18		0		0		0		0		0
Gator Box 6U	15		0		0	1	15		0		0
Gator Box 4U	12	1	12	1	12		0	1	12	1	12
2U Shelf Vented 16" D	2.5	1	2.5		0		0		0		0
2U Shelf 14" D	2.5		0	1	2.5	2	5		0	1	2.5
2U Shelf 12" D	2.5		0	1	2.5		0	1	2.5		0
1U Shelf 10.5" D	1		0		0		0		0	1	1
2U Drawer 13.38" D	13.6		0		0		0		0		0
1U Drawer 14" D	10.75		0		0		0		0		0
2U Blank Panel	1	1	1		0	1	1	1	1	1	1
1U Blank Panel	0.59		0	1	0.59		0		0		0
1U LED Light Panel NovexComm	1	1	1	1	1	1	1		0	1	1
1U Power Panel	5.4		0	1	5.4		0	1	5.4	1	5.4
ICOM 751A	18.74	1	18.74		0		0		0		0
ICOM SP-3 Speaker	6.6		0	1	6.6		0		0		0
MFJ 934E Ant Tuner	3.86		0	1	3.86		0		0		0
Signalink USB	0.4125		0		0		0		0		0
FT991A	9.5		0		0	1	9.5		0		0
Yaesu MMB-890 Bracket	1		0		0	1	1		0		0
SP-10 Speaker	2.2		0		0	1	2.2		0		0
MFJ 949Y Auto Tuner	2.5		0		0	1	2.5		0		0
RIGblaster Advantage	1.5		0	1	1.5	1	1.5		0	1	1.5
FTM400XDR	2.64		0		0		0		0	1	2.64
MLS-200-M10 Speaker	1.6		0		0		0		0	1	1.6
Zumspot Dual Band Kit	0.5		0		0		0		0	1	0.5
C4 LABS ZUMspot Dual Bd Cas	0.25		0		0		0		0	1	0.25
HRO ZUMspot Power-ALL	0.25		0		0		0		0	1	0.25
MFJ-4115 15A Pwr Sup	1.5		0		0		0		0	1	1.5
RIGrunner 4004 USB	0.42		0		0		0		0	1	0.42
MFJ-4245MV 45A Pwr Sup	7.25		0		0		0	1	7.25		0
BLF-1215A 12V,15Ah Battery	4.3		0		0		0	1	4.3		0
Epic PWRgate	0.36		0		0		0	1	0.36		0
RIGrunner 4012	0.96		0		0		0	1	0.96		0
			35.24		35.95		38.7		33.77		31.56



Current Gator Box Pro Weights

Item	Weight	4U ICOM 751A		4U ICOM 751A AUX		6U FT991A		4U Power		4U FTM400XDR	
		Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt
Gator Box 8U	18		0		0		0		0		0
Gator Box 6U	15		0		0	1	15		0		0
Gator Box 4U	12	1	12	1	12		0	1	12	1	12
2U Shelf Vented 16" D	2.5	1	2.5		0		0		0		0
2U Shelf 14" D	2.5		0	1	2.5	2	5		0	1	2.5
2U Shelf 12" D	2.5		0	1	2.5		0	1	2.5		0
1U Shelf 10.5" D	1		0		0		0		0	1	1
2U Drawer 13.38" D	13.6		0		0		0		0		0
1U Drawer 14" D	10.75		0		0		0		0		0
2U Blank Panel	1	1	1		0	1	1	1	1	1	1
1U Blank Panel	0.59		0	1	0.59		0		0		0
1U LED Light Panel NovexComm	1	1	1	1	1	1	1		0	1	1
1U Power Panel	5.4		0	1	5.4		0	1	5.4	1	5.4
ICOM 751A	18.74	1	18.74		0		0		0		0
ICOM SP-3 Speaker	6.6		0	1	6.6		0		0		0
MFJ 934E Ant Tuner	3.86		0	1	3.86		0		0		0
Signalink USB	0.4125		0		0		0		0		0
FT991A	9.5		0		0	1	9.5		0		0
Yaesu MMB-890 Bracket	1		0		0	1	1		0		0
SP-10 Speaker	2.2		0		0	1	2.2		0		0
MFJ 949Y Auto Tuner	2.5		0		0	1	2.5		0		0
RIGblaster Advantage	1.5		0	1	1.5	1	1.5		0	1	1.5
FTM400XDR	2.64		0		0		0		0	1	2.64
MLS-200-M10 Speaker	1.6		0		0		0		0	1	1.6
Zumspot Dual Band Kit	0.5		0		0		0		0	1	0.5
C4 LABS ZUMspot Dual Bd Cas	0.25		0		0		0		0	1	0.25
HRO ZUMspot Power-ALL	0.25		0		0		0		0	1	0.25
MFJ-4115 15A Pwr Sup	1.5		0		0		0		0	1	1.5
RIGrunner 4004 USB	0.42		0		0		0		0	1	0.42
MFJ-4245MV 45A Pwr Sup	7.25		0		0		0	1	7.25		0
BLF-1215A 12V,15Ah Battery	4.3		0		0		0	1	4.3		0
Epic PWRgate	0.36		0		0		0	1	0.36		0
RIGrunner 4012	0.96		0		0		0	1	0.96		0
			35.24		35.95		38.7		33.77		31.56

All below 40 lbs.



My Folding Luggage Cart

- From Amazon
- 330 lb capacity
- 7 wheels
- Folds pretty flat
- Put a little WD-40 on mechanism

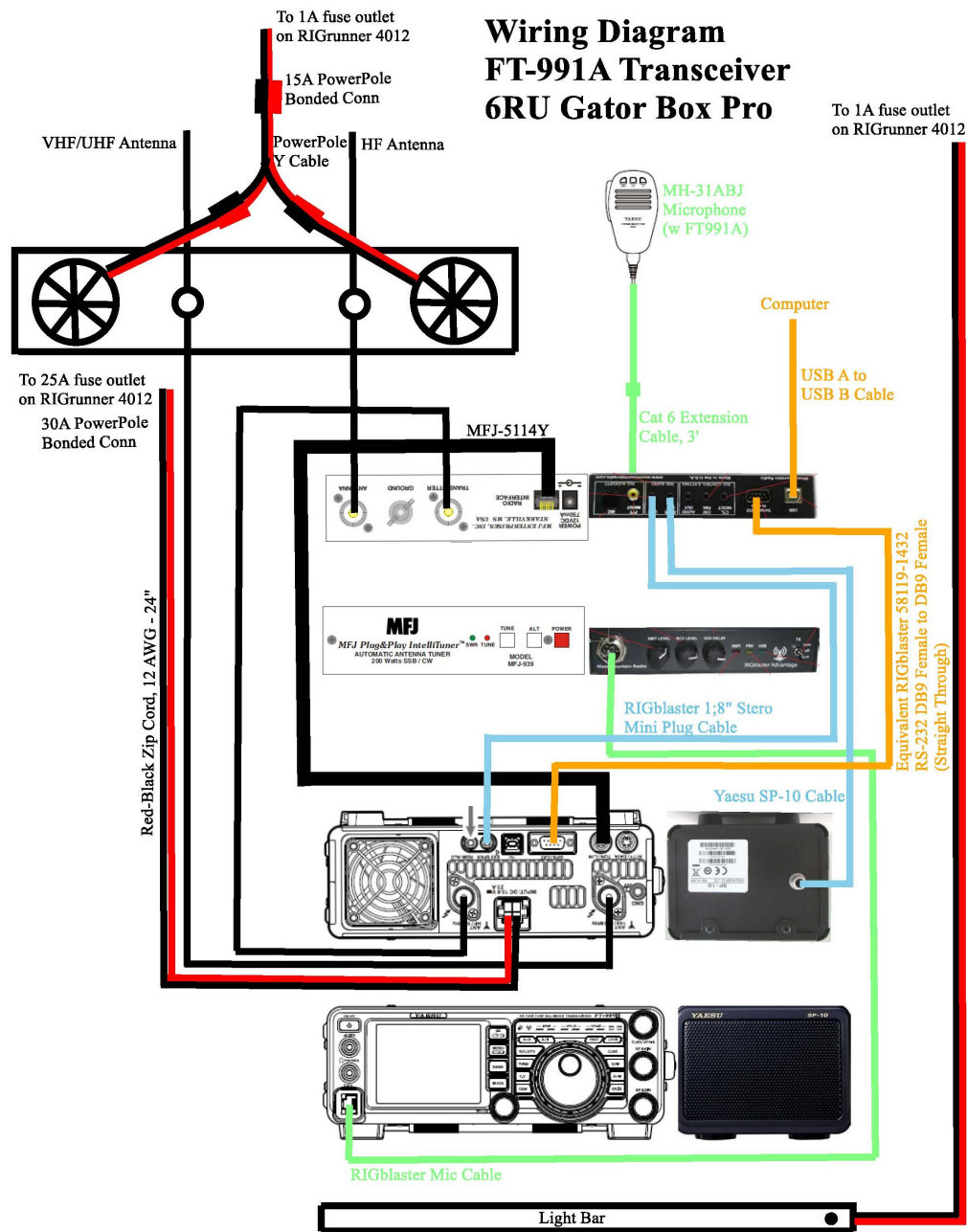


Use at:

- Home
- Field Day
- JOTA



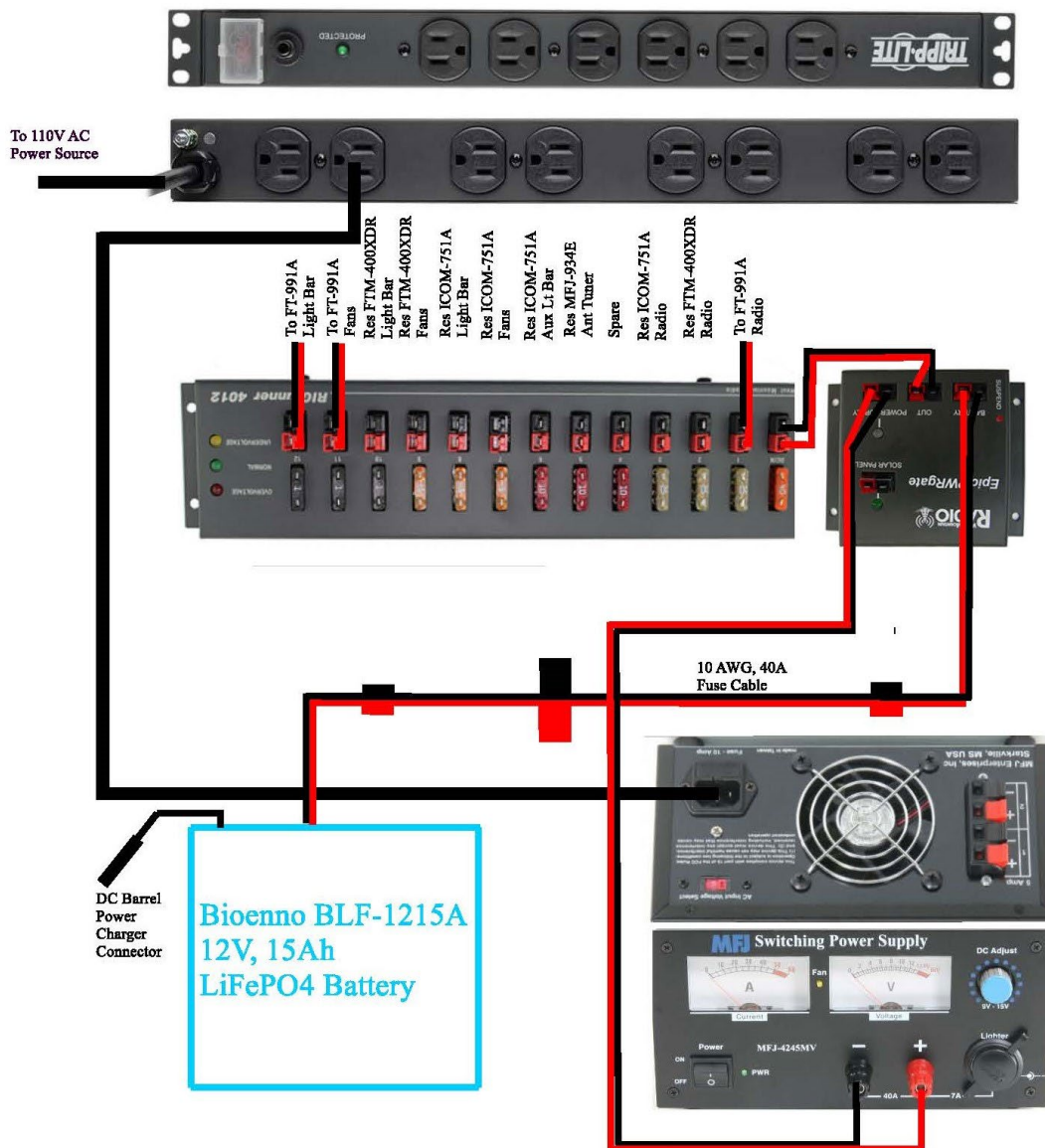
FT-991A 6RU Wiring Diagram





Wiring Diagram Power 4RU Gator Box Pro

Power 4RU Wiring Diagram





Finally I Ordered Everything

- **Amateur radio and accessories from multiple on-line ham stores, especially GigaParts**
- **Gator Box Pro, racks, and straps from Amazon**
- **Cables from everywhere:**
 - **Quicksilver Radio**
 - **West Ridge Mountain**
 - **Powerworx**
 - **eBay**
- **Miscellaneous hardware, bolts, washers, etc. from Home Depot**



19" Rack Shelf





MMB-90 Bracket for FT991A





Radio Shelf w Brackets



MMB-90 on left
L brackets on right for SP-10

L bracket is from tile to rug edging





Radio Shelf w Radio & Speaker



Velcro Straps hold the SP-10 between its brackets.



Accessory Shelf w Brackets





Accessory Shelf w Equipment



MFJ-939Y Autotuner on left
RIGblaster Advantage on right



Rear View FT-991A 6RU Gator Box Pro





Power Shelf w Brackets





Power Shelf w Equipment





Front View Power 6RU Gator Box





Rear View Power 6RU Gator Box

Supports
Solar
Panel





Front View FT-991A Portable Radio Station



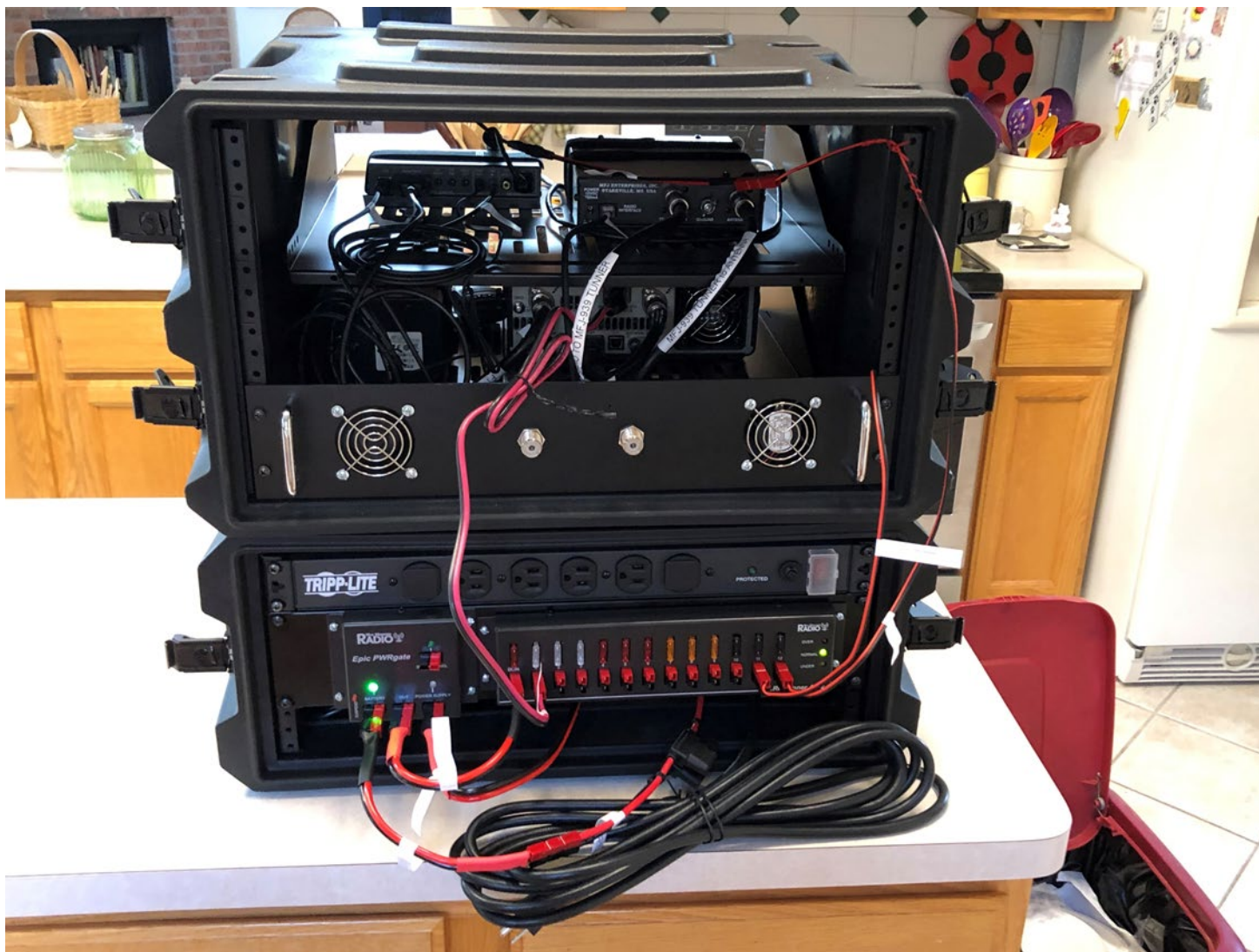


Side View FT-991A Portable Radio Station





Rear View FT-991A Portable Radio Station





FT-991A Portable Radio Station Set Up

Also upgraded the table and chair.





FT-991a Portable Radio Station Set Up At Night





Set Up Times

- **The first setup of the Buddipole takes 30-40 minutes.**
- **The radio setup takes 15 minutes.**
 - **Most of the time is for table and chair setup and just moving the Gator Box Pros into place.**
 - **Once on the table, it takes 6 minutes to have the radio operational.**
- **The computer setup is helped by turning it on to boot while everything is being done. That can take 5-15 minutes.**

Total time to set up or tear down is 60 minutes.



Show and Tell

I am taking the front and rear covers off of the Ft-9991A Radio Box and Power Box so you can look in.



Advantages for Me

- I can get on the air without a permanent indoor radio shack.
- Most of my wiring is semi-permanent.
- I am always rehearsed and ready to set up anywhere else.
- Field Day – no problem – load up the car and move out.
- JOTA – no problem – load up the car and move out.
- I can mix and match boxes.

The FTM-400XDR 4RU Gator Box Pro was built.

I have also built the ICOM-7610 6RU Gator Box Pro.

The ICOM-751A boxes are in the future.



Advantages for You

- **It can get you on the air if you do not have a permanent indoor radio shack.**
- **You are ready to set up anywhere else even if you do have a permanent indoor radio shack.**
 - **Field Day**
 - **JOTA**
 - **Emergency Communications**
- **You can mix and match what boxes to take for a trip.**



Costs

Gator Box Pro Costs

Item	Qty	Source	Cost	Notes
<i>FT991A 6RU Gator Box Pro</i>				
Gator Box Pro, 6RU, Deep	1 ea	Amazon	161.65	
Shelf, 14" deep	2 ea	Amazon	55.98	
Light Bar	1 ea	Novexcomm	200.00	
Panel, 2RU w 2 fans & 2 SO239 bulkhead connectors	1 ea	Novexcomm		1

<i>Power 4RU Gator Box Pro</i>				
Gator Box Pro, 4RU, Deep	1 ea	Amazon	136.50	
Shelf, 14" deep	1 ea	Amazon	27.99	
Power Strip	1 ea	Amazon	60.67	
Panel, 2RU, blank	1 ea	Amazon	12.99	

<i>Other</i>				
Vigaer 24" x 1" Cinch Cable Tie Down Straps, Velcro	1 pkg	Amazon	8.59	
Amazon Taxes and S&H		Amazon	29.61	
Aluminium Edge, Bolts, Nuts, and Washers		Home Depot	20.00	
Table, Folding, 2' x 4'		Amazon	74.26	
Chair, Folding, Padded		Sam's Club	23.79	

Plus Power Poles, Crimpers, and ZipCord

Note 1: Included with Light Bar

812.03



Equipment Costs

Costs

Item	Qty	Source	Cost	Notes
<i>FT991A 6RU Gator Box Pro</i>				
Yaesu FT991A HF/VHF/UHF Transceiver	1 ea	GigaParts	1,199.95	
MMB-90 Bracket for FT-991A	1 ea	GigaParts	33.00	
RT System ADMS-001A w RT-42 USB-A to USB-B Cbl	1 ea	GigaParts	35.00	
Yaesu Sp-10 External Speaker	1 ea	GigaParts	149.95	
MFJ-939Y Autotuner, HF, with Cable VAE950/450/891	1 ea	R&L	149.95	
RIGBlaster Advantage	1 ea	GigaParts	184.90	
<i>Power 4RU Gator Box Pro</i>				
MFJ-4245MV Switching Power Supply, 45A	1 ea	GigaParts	139.95	
Bioenno Power 12V, 15Ah LFP LiFePO4	1 ea	Amazon	164.99	
RIGrunner 2012	1 ea	RANDL	104.95	
Epic PWRgate	1 ea	GigaParts	169.00	
<i>Other</i>				
HRD CD	1 ea	GigaParts	99.95	
4 Pin Conn to 30A PwrPole 12 AWG Transition Cbl, 3'	1 ea	Quicksilver Radio	17.73	
RF LMR400 Cable with PL259 Connectors, 18"	1 ea	MPD Digital (eBay)	18.72	
RF LMR400 Cable with PL259 Connectors, 12"	1 ea	MPD Digital (eBay)	16.78	
RF LMR400 Cable with PL259 Connectors, 12"	1 ea	MPD Digital (eBay)	16.78	
DB9 F to DB9 F Straight Cbl, 3'	1 ea	Amazon	5.35	
Power Pole Y Cable for the 2 fans	1 ea	Electro-Resales (eBay)	11.69	
ATC Style Fuse Holders w PwrPole Conn, 10 AWG, 40A	1 ea	Powerwerx	21.99	
6' 10 AWG 1/4" rings to Powerpole 45A zip cord	1 ea	Powerwerx	15.99	
Shielded Cat 6 Ethernet Extension Cable, 3'	1 ea		10.81	1

Note 1: 2 in package

2,567.43



Bonus – FTM400XDR

Item	Weight	4U ICOM 751A		4U ICOM 751A AUX		6U FT991A		4U Power		4U FTM400XDR	
		Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt	Qty	Tot Wt
Gator Box 8U	18		0		0		0		0		0
Gator Box 6U	15		0		0	1	15		0		0
Gator Box 4U	12	1	12	1	12		0	1	12	1	12
2U Shelf Vented 16" D	2.5	1	2.5		0		0		0		0
2U Shelf 14" D	2.5		0	1	2.5	2	5		0	1	2.5
2U Shelf 12" D	2.5		0	1	2.5		0	1	2.5		0
1U Shelf 10.5" D	1		0		0		0		0	1	1
2U Drawer 13.38" D	13.6		0		0		0		0		0
1U Drawer 14" D	10.75		0		0		0		0		0
2U Blank Panel	1	1	1		0	1	1	1	1	1	1
1U Blank Panel	0.59		0	1	0.59		0		0		0
1U LED Light Panel NovexComm	1	1	1	1	1	1	1		0	1	1
1U Power Panel	5.4		0	1	5.4		0	1	5.4	1	5.4
ICOM 751A	18.74	1	18.74		0		0		0		0
ICOM SP-3 Speaker	6.6		0	1	6.6		0		0		0
MFJ 934E Ant Tuner	3.86		0	1	3.86		0		0		0
Signalink USB	0.4125		0		0		0		0		0
FT991A	9.5		0		0	1	9.5		0		0
Yaesu MMB-890 Bracket	1		0		0	1	1		0		0
SP-10 Speaker	2.2		0		0	1	2.2		0		0
MFJ 949Y Auto Tuner	2.5		0		0	1	2.5		0		0
RIGblaster Advantage	1.5		0	1	1.5	1	1.5		0	1	1.5
FTM400XDR	2.64		0		0		0		0	1	2.64
MLS-200-M10 Speaker	1.6		0		0		0		0	1	1.6
Zumspot Dual Band Kit	0.5		0		0		0		0	1	0.5
C4 LABS ZUMspot Dual Bd Cas	0.25		0		0		0		0	1	0.25
HRO ZUMspot Power-ALL	0.25		0		0		0		0	1	0.25
MFJ-4115 15A Pwr Sup	1.5		0		0		0		0	1	1.5
RIGrunner 4004 USB	0.42		0		0		0		0	1	0.42
MFJ-4245MV 45A Pwr Sup	7.25		0		0		0	1	7.25		0
BLF-1215A 12V,15Ah Battery	4.3		0		0		0	1	4.3		0
Epic PWRgate	0.36		0		0		0	1	0.36		0
RIGrunner 4012	0.96		0		0		0	1	0.96		0
			35.24		35.95		38.7		33.77		31.56



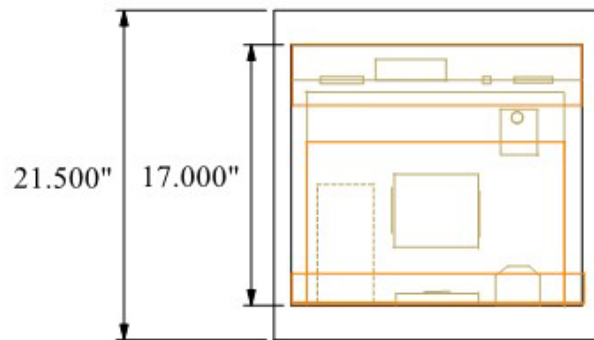
Bonus – FTM400XDR

Equipment Description	Weight lbs	Width"	Height"	Depth"	Amps	Volts, DC
ICOM-751A Transceiver	18.74	12.68	4.72	15.16	20	13.8
ICOM SP Speaker	6.6	7	5	10.5		
MFJ-949E Antenna Tuner	3.86	10.55	3.5	9	<1	12
Signalink USB	0.4125	3.6	1.6	3.2		
Yaesu FT-991A Transceiver	9.5	9	3.2	11.625	20	13.8
Yaesu MMB-890 Bracket for FT-991A	1	9.75	4.125			
Yaesu Speaker	2.2	4.33	3.14	9.9		
MFJ-939Y Autotuner, HF	2.5	6.5	2.875	8.375		
RIGblaster Advantage	1.5	6.25	1.25	4		
Yaesu FTM-400DXR Transceiver	2.64	5.5	2.8/1.16	.8/4.9	13	13.8
Yaesu MLS-200-M10 Speaker	1.4	3.15	3.15	3.54		
Zumspot Dual Band in C4Labs case	1	3	2.5	1.5	<1	5
RIGblaster Advantage						
MFJ-4115 Power Supply	1.5	3.75	2.25	7.75	15	13.8
RIGrunner 4004 USB	0.42	4.7	3	1.4	40	13.8
MFJ-4245MV 45A Power Supply	7.25	7.5	4.75	9	45	12
BiennoBLF-1215A 12V, 15Ah Battery	4.3	4.2	3.2	5.5	60	12
Epic PWRgate 12V Battery Charger	0.35	4.5	3.375	1.25	40	12
RIGrunner 4012	0.9625	11.75	3	1.4	40	12



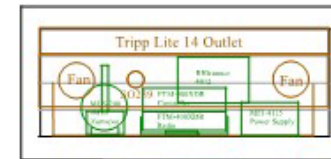
Final FTM-400XDR 4RU Gator Box Pro CAD

Top View

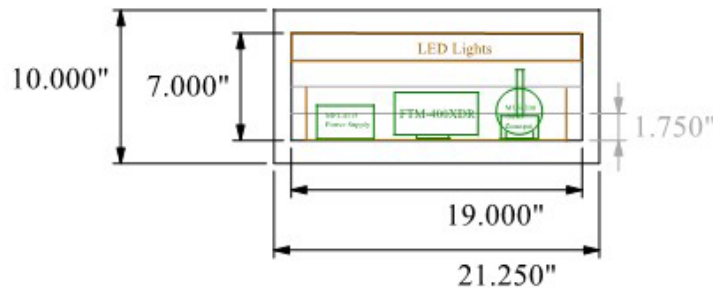


Gator Rack Pro Series
Roto Molded Polyethylene
4U, 19" Deep Molded Rack
G-PRO-4U-19

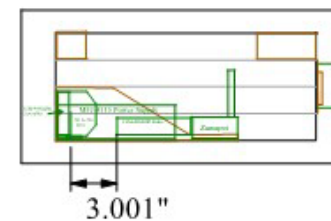
Rear View



Front View

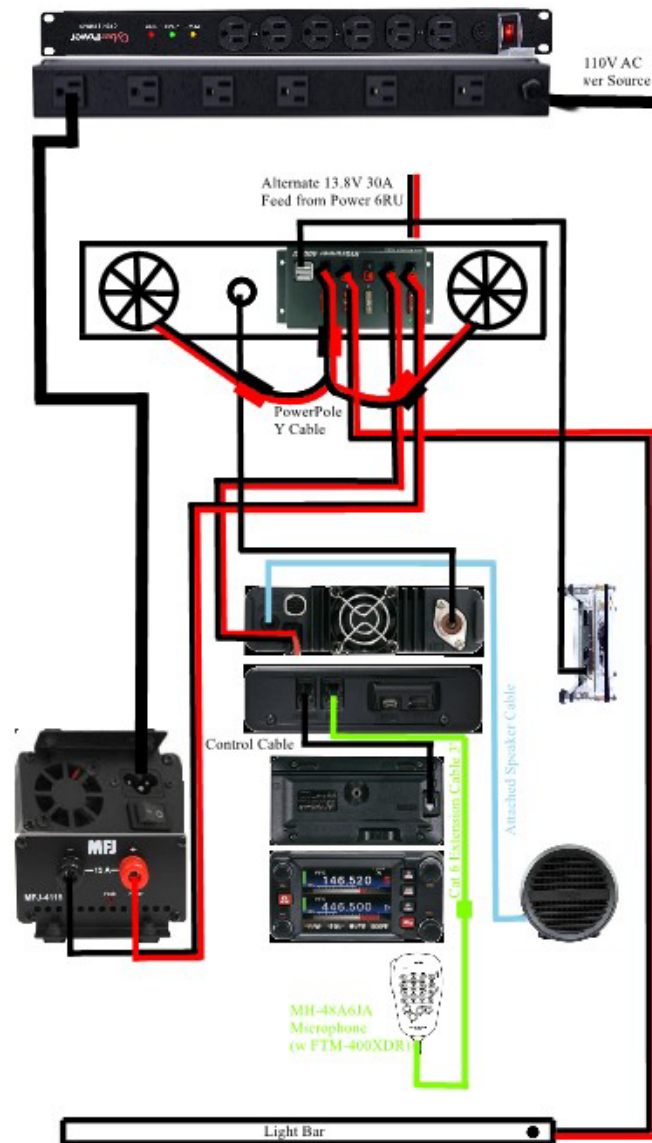


Side View





FTM-400XDR 4RU Wiring Diagram





FTM-400XDR

Front View





FTM-400XDR

Rear View





Questions?