Boulder County Sheriff's Office
Communications – Radio Shop
3280 Airport Road   Boulder, Colorado 80301

January 1, 2023

Approved radio list for Boulder County Communication Center

This list focuses on VHF P25 Phase 1 radios, 7/800MHz radios for State of Colorado DTRS use and dual band radios (VHF/800) as a guide for future purchasing planning with the end goal of year 2030 compliance. Single band 800 and dual band VHF/800 radios on this list are also approved by CCNC for use on the state-wide DTRS and are found on the list published by CCNC. ==The use of dual band radios is becoming the standard and may be preferred in many cases however it may be more practical to deploy single band radios in both VHF and 800, particularly for agencies who are very wildland fire centric requiring BK radios==. It is expected that VHF only radios currently in use will either be on the list below or phased out by 2030 due to age or technical capability (such as analog only radios). All radios must be FCC Part 90 approved.

Radios listed in RED are OK to use for now however they are no longer supported by the manufacturer, may not be repairable/serviceable/upgradeable and with limited capabilities. If radios are to be *purchased*, it is suggested to not consider these models.

Should there be questions about using radios not listed, please consult with the BCCC radio technicians, sheriffradiotech@bouldercounty.org

Single Band VHF P25 radios

VHF only radios will be P25 Phase 1 conventional compliant. Trunking and Phase 2 is not required.
Suggested options are 400+ channel capacity, ADP and AES multi-key encryption (*required for Law agencies*), Over Wi-Fi programming capability, Bluetooth accessory capability, user defined/tactical programmable zones and integrated GPS radio.

EF JOHNSON / KENWOOD

Mobile	Portable
NX5700 series	NX5200 series
VM5000 series	VP5000 series
VM6000 series	VP6000 series

HARRIS

Mobile	Portable
XG25M	XG15
XG-75M	XG-25
XL-185M	XG-75
	XL-185

ICOM

Mobile	Portable
F7500 series	F7000 series
F9500 series	F9000 series

MOTOROLA[2]

Mobile	Portable
APX series	APX series
XTL series	XTS series

TAIT

Mobile	Portable
TM9400 series	TP9400 series
	TP9600 series
TM9100 series	TP9100 series

RELM / BK

Mobile	Portable
KNG mobile series	KNG2 series
	BKR series
	KNG P series
	DPH series

VERTEX

Mobile	Portable
VX-7200	VX-P820 series
	VX-P920 series

Dual Band VHF/7-800MHz radios

Dual band radios must be Phase 1 trunking capable and Phase 2 capable (or upgradeable).
Suggested options are 400+ channel capacity, ADP and AES multi-key encryption (*required for Law agencies*), Over Wi-Fi programming capability, Bluetooth accessory capability, user defined/tactical programmable zones and integrated GPS radio.

EF JOHNSON / KENWOOD

Mobile	Portable
VM7000 (multi-deck)[1]	VP8000[1]
VM900	VP900

HARRIS

Mobile	Portable
XL200M	XL200P
XG-100M	XL400P
	XG-100(P) "Unity"

MOTOROLA[2]

Mobile	Portable
APX8500 series	APX8000 series
	APX NEXT multi-band series[1]
APX7500 series	APX7000 series

TAIT

Portable
TP9800[1]

RELM / BK

Portable
Portable: BKR9000[1]

Single band 7/800MHz

Single band 7/800MHz radios must be Phase 1 trunking capable and Phase 2 capable (or upgradeable).
Suggested options are 400+ channel capacity, ADP and AES multi-key encryption (*required for Law agencies*), Over Wi-Fi programming capability, Bluetooth accessory capability, user defined/tactical programmable zones and integrated GPS radio.

EF JOHNSON/KENWOOD

Mobile	Portable
VM5930	VP-5430
	VP 6430

HARRIS

Mobile	Portable
M7300/XG-75(M)	XL-185(P)
XG-100(M) "Unity"	XL-200(P)
XG-25(M)	XG-75(P)
	XG-100(P) "Unity"

ICOM

Mobile	Portable
IC-F7540	IC-F7040[3]

MOTOROLA[2]

Mobile	Portable
APX-1500	APX-1000
APX-4500	APX-4000
APX-6500 Lite	APX-6000 Lite
APX-6500	APX-6000
APX-7500 (Multiband)	APX-7000 (Multiband)
APX-8500 (Multiband)	APX-8000 (Multiband)
	APX-900
XTL 1500	XTS 1500
	XTS 2000
XTL 2500	XTS 2500
XTL 5000	XTS 5000

TAIT

Mobile	Portable
TM9400 series	TP9400 series
TM9435	TP9435/TP9440
TM9455	TP9455/TP9460
TM9457	TP9461 IS
TM9100 series	TP9100 series
TM9135	TP9135/TP9140
TM9155	TP9155/TP9160
TM9160HS	

RELM / BK Technologies

Mobile	Portable
KNG-M800	KNG-P800
	KNG2-P800

[1]These radios are expected to be approved for use on CCNC in 2023

[2]BCSO anticipates that we will be able to support all agencies with WiFi programming in the future for Motorola APX capable radios.

[3]This radio is not as ruggedized as other models and suggested for light duty SAR and ADMIN purposes.