

PA-STARNet Subscriber & System Information



6/21/2022

P25 PA-STARNet Approved Radio & Additional Device List

Mobiles

Manufacturer	Model	Band
Motorola	APX8500	All Band Capable
Motorola	APX8500 Rack (Consolette)	All Band Capable
Motorola	APX6500	Single
Motorola	APX7500 (Discontinued but still approved will be replaced with new model)	Dual Capable
Motorola	APX7500 Rack (Consolette) (Discontinued but still approved will be replaced with new model)	Dual Capable
Motorola	APX4500	Single
Kenwood (EFJ)	Viking VM900 (Discontinued but still approved will be replaced with new model)	Dual Capable
Kenwood (EFJ)	Viking VM5000	Single
Kenwood (EFJ)	Viking VM6000	Single
Kenwood (EFJ)	Viking VM7000 (Single deck configuration ONLY)	All Band Capable

Portables

Manufacturer	Model	Band
Motorola	APX8000	All Band Capable
Motorola	APX7000	Dual Band Capable
Motorola	APX6000	Single
Motorola	APX4000	Single
Motorola	APX900 (NOT public safety grade. Does not support OTAR/DVRS) NOT to be sold if encryption required)	Single
Kenwood (EFJ)	Viking VP900 (Discontinued but still approved will be replaced with new model)	Dual Capable
Kenwood (EFJ)	Viking VP6000	Single
Kenwood (EFJ)	Viking VP5000	Single

Other Devices

Manufacturer	Model
Motorola	MDC 5000 IP Remote Desk Set
Motorola	MCC7500E Dispatch Console (Replaces MCC7100 & MCC7500E with VPM Dispatch Console)
FutureCom	Repeater - Contact SRND before purchasing
Pyramid	Repeater - Contact SRND before purchasing
Zetron	ACOM Dispatch Console – Contact SRND before purchasing

P25 PA-STARNet Radio Requirements & Options List

P25 Phase 2 Minimum Requirements Needed to Access the System – Required Options

Manufacturer	Description
Non-Vendor Specific	Digital CAI Operation
Non-Vendor Specific	P25 9600 Baud Trunking
Non-Vendor Specific	TDMA Operation
Non-Vendor Specific	Multi-Site Roaming
Non-Vendor Specific	P25 Link Layer Authentication
Motorola	Alias Download (Updates Alias Over-the-Air) – Required Group Services
Motorola	ASK Hardware Key QA01648AA – Option in Radio (Disallow Software Programming)
Kenwood (EFJ)	RSD Hardware Key – Implemented in Template (Disallow Software Programming)

P25 System Security Requirements– Options (Based on Operational Need)

Manufacturer	Description
Non-Vendor Specific	AES 256 Encryption - Only Algorithm Supported on PA-STARNet
Non-Vendor Specific	Multi Key Encryption with P25 Over-The-Air-Rekeying (OTAR) - Radios not capable of OTAR cannot be bought or upgraded with encryption

P25 System Other Requirements– Optional Options (System limitation on certain features)

Manufacturer	Description	Requires
Non-Vendor Specific	Over-The-Air-Programming (OTAP)	P25 Data
Non-Vendor Specific	Wi-Fi Capabilities for programming	NA
Non-Vendor Specific	Bluetooth capabilities	NA
Motorola (at this time)	Location Services – currently being reviewed	P25 Data/GPS
Motorola	Enhanced Data	P25 Data

Note: **Dual** band radios recommended. Coverage augmentation and fill-in coverage could be in a different band (other than VHF). If you have any questions, contact PA-STARNet Customer Support.