

July 18, 2024

To Whom It May Concern,

Models Difference Letter:

**SC4210EP-235-BB, SC4210EP-235F-BB
SC4210EP-235-EB, SC4210EP-235F-EB
SC4240EP-235-BB, SC4240EP-235F-BB
SC4240EP-235-EB, SC4240EP-235F-EB
SC42A0EP-235-BB, SC42A0EP-235F-BB
SC42A0EP-235-EB, SC42A0EP-235F-EB**

**SC4210EP-235467-BB, SC4210EP-235467F-BB
SC4210EP-235467-EB, SC4210EP-235467F-EB
SC4240EP-235467-BB, SC4240EP-235467F-BB
SC4240EP-235467-EB, SC4240EP-235467F-EB
SC42A8EP-235467-BB, SC42A8EP-235467F-BB
SC42A8EP-235467-EB, SC42A8EP-235467F-EB**

**SC4410E-235-SBST, SC4410E-235F-SBST
SC4480E-235-SBST, SC4480E-235F-SBST
SC44K0E-235-SBST, SC44K0E-235F-SBST**

**SC4410E-235467-SBST, SC4410E-235467F-SBST
SC4480E-235467-SBST, SC4480E-235467F-SBST
SC44KGE-235467-SBST, SC44KGE-235467F-SBST**

SC4210, 40, A0, A8EP

Two channels' radio, from 0.5Watts, 2Watts up to 5Watts or 5Watts/Low-band 4Watts/High-band of output power per output. External powered (-EB) or battery powered (BB).

SC4410, 80, K0, KGE

Four channels' radios, from 0.5Watts, 2Watts up to 5Watts or 5Watts/Low-band
4Watts/High-band of output power per output.

SC42xx-235, SC44xx-235

Single band radios

SC42xx-235467, SC44xx-235467

Dual bands radios

Summary of models' differences:

<u>Model</u>	<u>New Model#</u>	<u># of Antennas</u>	<u>Band(s)-MHz</u>	<u>Tx/Ant (W)</u>	
				<u>LB</u>	<u>HB</u>
SC4210EP-235-BB	SC4210EP-235F-BB	2	2200-2500	0.5	
SC4210EP-235-EB	SC4210EP-235F-EB	2	2200-2500	0.5	
SC4240EP-235-BB	SC4240EP-235F-BB	2	2200-2500	2	
SC4240EP-235-EB	SC4240EP-235F-EB	2	2200-2500	2	
SC42A0EP-235-BB	SC42A0EP-235F-BB	2	2200-2500	5	
SC42A0EP-235-EB	SC42A0EP-235F-EB	2	2200-2500	5	
SC4210EP-235467-BB	SC4210EP-235467F-BB	2	2200-2500, 4400-4940	0.5	0.5
SC4210EP-235467-EB	SC4210EP-235467F-EB	2	2200-2500, 4400-4940	0.5	0.5
SC4240EP-235467-BB	SC4240EP-235467F-BB	2	2200-2500, 4400-4940	2	2
SC4240EP-235467-EB	SC4240EP-235467F-EB	2	2200-2500, 4400-4940	2	2
SC42A8EP-235467-BB	SC42A8EP-235467F-BB	2	2200-2500, 4400-4940	5	4
SC42A8EP-235467-EB	SC42A8EP-235467F-EB	2	2200-2500, 4400-4940	5	4
SC4410E-235-SBST	SC4410E-235F-SBST	4	2200-2500	0.5	
SC4480E-235-SBST	SC4480E-235F-SBST	4	2200-2500	2	
SC44K0E-235-SBST	SC44K0E-235F-SBST	4	2200-2500	5	
SC4410E-235467-SBST	SC4410E-235467F-SBST	4	2200-2500, 4400-4940	0.5	0.5
SC4480E-235467-SBST	SC4480E-235467F-SBST	4	2200-2500, 4400-4940	2	2
SC44KGE-235467-SBST	SC44KGE-235467F-SBST	4	2200-2500, 4400-4940	5	4

Details datasheets on Silvus website

<https://silvustechnologies.com/wp-content/uploads/2023/09/StreamCaster-4200-SC4200EP-Enhanced-Plus-Datasheet-1.pdf>

<https://silvustechnologies.com/wp-content/uploads/2024/05/StreamCaster-4400-SC4400E-Enhanced-Datasheet.pdf>

Summary of common features:

WAVEFORM	Mobile Networked MIMO (MN-MIMO)
ENCRYPTION	DES56 (Standard) AES256 (Optional) FIPS 140-3 Level 2
DATA RATE	Up to 100Mbps (Adaptive)
MIMO TECHNIQUES	Spatial Multiplexing, Space-Time Coding TX/RX Eigen Beamforming
PUSH-TO-TALK VOICE	G.711/G.722/Opus Codec RoIP Tethering, Dual PTT
LATENCY	7ms average (20MHz BW)
SENSITIVITY	-99dBm @ 5MHz BW -105 dBm @ 1.25MHz BW (Optional)
FREQUENCY BANDS	Bands from 300MHz to 6GHz available
CHANNEL BANDWIDTH (MHZ)	20/10/5 (2.5/1.25 Optional)
SCALABILITY	550+ Nodes
DIAGNOSTICS	Temperature/Voltage Monitoring Statistics Logging
SPECTRUM DOMINANCE LPI/LPD & ANTI-JAM CAPABILITIES	MANET Spectrum Analyzer (MAN-SA) MANET Power Control (MAN-PC)* MANET Protected Waveform (MAN-PW)* MANET Interference Cancellation (MAN-IC)* MANET Interference Avoidance (MAN-IA)
* ITAR-Controlled	

Sincerely,

Signature



Grant Denoon

Director of RF Engineering