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S4X Super Fourth Order Crossovers • Quick Ship Models Available

C




	C1	C1.iw	C1.w	C1.8	C1.8iw	C1.8w	C2	C2.iw	C2.w
Description	3-Way Center Speaker	3-Way In-Wall Center Speaker	3-Way On-Wall Center Speaker	3-Way Center Speaker	3-Way In-Wall Center Speaker	3-Way On-Wall Center Speaker	2-Way Center Speaker	2-Way In-Wall Center Speaker	2-Way On-Wall Center Speaker
Dimensions	9.75" H x 28.25" W x 8" D	13.5" H x 29.5" W x 3.875" D	13.5" H x 29.5" W x 4.25" D	11.75" H x 31.75" W x 10" D	13.5" H x 45.5" W x 3.875" D	13.5" H x 45.5" W x 4.25" D	8.5" H x 22.125" W x 8" D	13.5" H x 29.5" W x 3.875" D	8.5" H x 27.75" W x 4.25" D
Crossover Frequencies	700 Hz; 3.8 kHz	700 Hz; 3.8 kHz	700 Hz; 3.8 kHz	500 Hz; 3.7 kHz	500 Hz; 3.7 kHz	500 Hz; 3.7 kHz	2.5 kHz	2.5 kHz	2.5 kHz
Nominal Impedance	4 Ω	4 Ω	4 Ω	4 Ω (2.5 minimum)	4 Ω (2.5 minimum)	4 Ω (2.5 minimum)	4 Ω	4 Ω	4 Ω
Frequency Response	55 - 22 kHz	55 - 22 kHz	55 - 22 kHz	70 Hz - 20 kHz	70 Hz - 20 kHz	70 Hz - 20 kHz	55 - 22 kHz	55 - 22 kHz	55 - 22 kHz
Sensitivity (2.83 V @ 1 M)	90 dB	90 dB	90 dB	91 dB	91 dB	91 dB	88 dB	88 dB	88 dB
Power Handling	300 W	300 W	300 W	400 W	400 W	400 W	300 W	300 W	300 W
Magnetic Shielding	Yes	Yes	Yes	No	No	No	No	No	No
Tweeter	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" large format soft dome	1.125" large format soft dome	1.125" large format soft dome	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" inverted titanium dome with phase control
Midrange	3" soft dome	3" soft dome	3" soft dome	3" soft dome	3" soft dome	3" soft dome	N/A	N/A	N/A
Woofers	(2) 6.5" Kevlar cone with rubber surround	(2) 6.5" Kevlar cone with rubber surround	(2) 6.5" Kevlar cone with rubber surround	(2) 8" Kevlar cone with coated foam surrounds	(2) 8" Kevlar cone with coated foam surrounds	(2) 8" Kevlar cone with coated foam surrounds	(2) 6.5" Kevlar cone with rubber surround	(2) 6.5" Kevlar cone with rubber surround	(2) 6.5" Kevlar cone with rubber surround
Binding Posts	Gold-plated; #4 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #8 AWG Max	Gold-plated; #4 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #8 AWG Max	Gold-plated; #4 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #8 AWG Max
Enclosure	Sealed	Sealed	Sealed	Ported	Ported	Ported	Sealed	Sealed	Sealed

ID1




	ID1	ID1.iw	ID1.w	ID1.15
Description	Switchable 3-way/4-way Freestanding Speaker with Dual 10" Subwoofers	4-Way In-Wall Speaker with Dual 10" Subwoofers	4-Way On-Wall Speaker with Dual 10" Subwoofers	Switchable 3-Way/4-Way Freestanding Speaker with Dual 15" Subwoofers
Dimensions	56" H x 11" W x 10.5" D	54.5" H x 13.5" W x 3.875" D	54.5" H x 13.5" W x 4.25" D	62.75" H x 17.5" W x 15.5" D
Crossover Frequencies (Hz)	Upper: 700; 3,800 Hz Lower: 80 Hz switchable internal; 70-80 Hz recommended external	Upper: 700; 3,800 Hz Lower: separate amp for subwoofers and 70-80 Hz external electronic crossover	Upper: 700; 3,800 Hz Lower: separate amp for subwoofers and 70-80 Hz external electronic crossover	Upper: 500; 3,700 Hz Lower: 80 Hz switchable internal; 70-80 Hz recommended external
Nominal Impedance	Upper: 4 Ω Lower: 4 Ω	Upper: 4 Ω Lower: 4 Ω	Upper: 4 Ω Lower: 4 Ω	Upper: 4 Ω (2.5 minimum) Lower: 4 Ω (2.5 minimum)
Frequency Response	Upper: 60 Hz - 22 kHz Lower: 25 - 150 Hz	Upper: 55 Hz - 22 kHz Lower: 27 - 150 Hz	Upper: 55 Hz - 22 kHz Lower: 27 - 150 Hz	Upper: 55 Hz - 20 kHz Lower: 21 - 150 Hz
Sensitivity (2.83 V @ 1 M)	Upper: 89 dB Lower: 89 dB	Upper: 90 dB Lower: 80 dB	Upper: 90 dB Lower: 80 dB	Upper: 90 dB Lower: 90 dB
Power Handling	Upper: 150 W Lower: 800 W	Upper: 150 W Lower: 500 W	Upper: 150 W Lower: 500 W	Upper: 200 W Lower: 1,000 W
Tweeter	1.125" inverted titanium dome with phase control	1.125" inverted titanium dome with phase control	1.125" inverted titanium dome with phase control	1.125" high-power soft dome
Midrange	3" soft dome	3" soft dome	3" soft dome	3" soft dome
Woofers	6.5" Kevlar cone with rubber surround and cast frame	6.5" Kevlar cone with rubber surround and cast frame	6.5" Kevlar cone with rubber surround and cast frame	8" Kevlar cone with coated foam surround and cast frame
Subwoofer	(2) 10" mica-graphite poly cones with rubber surrounds and cast frames	(2) 10" drivers with rubber surrounds	(2) 10" drivers with rubber surrounds	(2) 15" talc polypropylene cones with polyether surrounds and cast frames

S1



	S1	S1.iw	S1.w	S1.8	S1.8iw	S1.8w	S1.8Siw	S1.8Sw	S1.8T	S1.8Tiw	S1.8Tw
Description	3-Way Bookshelf Speaker	3-Way In-Wall Speaker	3-Way On-Wall Speaker	3-Way Bookshelf Speaker	3-Way In-Wall Speaker	3-Way On-Wall Speaker	3-Way In-Wall Surround Speaker	3-Way On-Wall Surround Speaker	3-Way Freestanding Speaker	3-Way In-Wall Speaker	3-Way On-Wall Speaker
Dimensions	22.255" H x 8.5" W x 8" D	24.75" H x 13.5" W x 3.875" D	24.75" H x 13.5" W x 4.25" D	24.75" H x 10.5" W x 10" D	29.5" H x 13.5" W x 3.875" D	29.5" H x 13.5" W x 4.25" D	29.5" H x 13.5" W x 6" D	29.5" H x 13.5" W x 6.375" D	53.75" H x 10.5" W x 10" D	54.5" H x 13.5" W x 3.875" D	54.5" H x 13.5" W x 4.25" D
Crossover Frequencies	700 Hz - 3.8 kHz	700 Hz - 3.8 kHz	700 Hz - 3.8 kHz	500 Hz - 3.7 kHz	500 Hz - 3.7 kHz	500 Hz - 3.7 kHz	500 Hz - 3.7 kHz	500 Hz - 3.7 kHz	500 Hz - 3.7 kHz	500 Hz - 3.7 kHz	500 Hz - 3.7 kHz
Nominal Impedance	4 Ω	4 Ω	4 Ω	4 Ω (2.5 minimum)	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Frequency Response	55 Hz - 22 kHz	55 Hz - 22 kHz	55 Hz - 22 kHz	55 Hz - 20 kHz	55 Hz - 20 kHz	50 Hz - 20 kHz	50 Hz - 20 kHz	50 Hz - 20 kHz	36 Hz - 20 kHz	36 Hz - 20 kHz	36 Hz - 20 kHz
Sensitivity (2.83 V @ 1 M)	90 dB	90 dB	90 dB	90 dB	90 dB	90 dB	90 dB	90 dB	90 dB	90 dB	90 dB
Power Handling	150 W	150 W	200 W	200 W	200 W	200 W	200 W	200 W	200 W	200 W	200 W
Magnetic Shielding	Yes	No	No	No	No	No	No	No	No	No	No
Tweeter	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" large format soft dome	1.125" large format soft dome	1.125" large format soft dome	(2) 1.125" large format soft dome	(2) 1.125" large format soft dome	1.125" large format soft dome	1.125" large format soft dome	1.125" large format soft dome
Midrange	3" soft dome	3" soft dome	3" soft dome	3" soft dome	3" soft dome	3" soft dome	(2) 3" soft dome	(2) 3" soft dome	3" soft dome	3" soft dome	3" soft dome
Woofers	6.5" Kevlar cone with rubber surround	6.5" Kevlar cone with rubber surround	6.5" Kevlar cone with rubber surround	8" Kevlar cone with coated foam surround	8" Kevlar cone with coated foam surround	8" Kevlar cone with coated foam surround	8" Kevlar cone with coated foam surround	8" Kevlar cone with coated foam surround	(2) 8" Kevlar cone with coated foam surround	(2) 8" Kevlar cone with coated foam surround	(2) 8" Kevlar cone with coated foam surround
Binding Posts	Gold-plated; #4 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #8 AWG Max	Gold-plated; #4 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #4 AWG Max	Gold-plated; #4 AWG Max	Gold-plated; #4 AWG Max	Gold-plated; #4 AWG Max	Gold-plated; #4 AWG Max
Enclosure	Ported	Ported	Ported	Ported	Ported	Ported	Ported	Ported	Ported	Ported	Ported

AMPS



	A2 Amplifier	A3 Amplifier
Description	External Subwoofer Amplifier	Internal Subwoofer Amplifier
Type	Class AB Subwoofer Amplifier	Class H High-Efficiency Subwoofer
Driver Control	Patented non-distorting, frequency-selective excursion limiter	Patented non-distorting, frequency-selective excursion limiter
Crossover	N/A	24 dB/octave low pass adjustable from 40 Hz to 100 Hz in 3 Hz steps (may be switched "out" for full-range sound)
Frequency Response	20 Hz - 20 kHz; +/- 0.25dB	20 Hz - 20 kHz; +/- 0.25 dB
Harmonic Distortion	≤ 0.078% (@ 1 kHz, 1 W)	≤ 0.05% (@ 1 kHz, 1 W)
Voltage Gain (dB) S/N	36dB (internally switchable to 26 dB)	38 dB (externally switchable to 28 dB or 48 dB plus rotary gain control +/- 9 dB in 1/2 dB steps)
Damping Factor	95 dB	95 dB
Input Impedance	400 Ohms @ 60 Hz	300 Ohms @ 60 Hz
Output Load	2.5 Ohms minimum	2.5 Ohms minimum
Power Output (Continuous)	700 W \ 520 W \ 300 W	640 W \ 500 W \ 360 W
Inputs	1 RCA and balanced XLR	L&R RCA Low and high levels
Output Binding Posts	Gold Plated; #10 AWG max, or Banana Plugs	N/A
Power Requirements	120v AC; 6A slow-blow fuse	120/240v AC; 50/60 Hz; 6A slow-blow fuse
Level Controls	N/A	+/- 19 dB w/ fixed 1/2 dB steps
Auto On/Off	Auto power down if no signal for 20 minutes (turn-on sensitivity 2mv)	Auto power down if no signal for 20 minutes (turn-on sensitivity 2mv)

S2



	S2	S2.iw	S2.w	S2.T	S2.c	S2.i & S2.T
Description	2-Way Bookshelf Speaker	2-Way In-Wall Speaker	2-Way On-Wall Speaker	2-Way Freestanding Speaker	2-Way Corner Speaker	2-Way Corner Speaker
Dimensions	15.25" H x 8.5" W x 8" D	17.375" H x 13.5" W x 3.875" D	21.75" H x 8.5" W x 4.25" D	53.75" H x 10.5" W x 10" D	15.25" H x 8.5" W x 8" D	15.25" H x 8.5" W x 8" D
Crossover Frequencies	2.5 kHz	2.5 kHz	2.5 kHz	2.5 kHz	2.5 kHz	2.5 kHz
Nominal Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Frequency Response	58 Hz - 22 kHz	58 Hz - 22 kHz	58 Hz - 22 kHz	48 Hz - 22 kHz	58 Hz - 22 kHz	58 Hz - 22 kHz
Sensitivity (2.83 V @ 1 M)	88 dB	88 dB	88 dB	88 dB	88 dB	88 dB
Power Handling	175 W	175 W	175 W	175 W	175 W	175 W
Magnetic Shielding	Yes	No	Yes	Yes	Yes	Yes
Tweeter	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" inverted titanium dome	1.125" inverted titanium dome
Woofers	6.5" Kevlar cone with rubber surround and cast frame	6.5" Kevlar cone with rubber surround and cast frame	6.5" Kevlar cone with rubber surround and cast frame	6.5" Kevlar cone with rubber surround and cast frame	6.5" Kevlar cone with rubber surround and cast frame	6.5" Kevlar cone with rubber surround and cast frame
Binding Posts	Gold-plated; #4 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #8 AWG Max	Gold-plated; #4 AWG Max	Gold-plated; #4 AWG Max	Gold-plated; #4 AWG Max
Enclosure	Sealed	Sealed	Sealed	Ported	Sealed	Sealed

SW



	SW1	SW2	SW3	SW4	SW4.iw	SW4.w	SW5.w
Description	Twin 15" Isobaric Subwoofer	18" Subwoofer	12" Subwoofer	10" Subwoofer	Dual 10" In-Wall Subwoofer	Dual 10" On-Wall Subwoofer	Triple 6" x 9" On-Wall Subwoofer
Dimensions	17" H x 17.25" W x 17.75" D	22.75" H x 21.5" W x 18.25" D	14.25" H x 14" W x 15" D	12.375" H x 11.75" W x 11.5" D	13.5" H x 29.5" W x 3.875" D	13.5" H x 29.5" W x 4.25" D	8.5" H x 37.75" W x 4.25" D
Drivers	(2) 15" laminated cones with rubber surrounds, 120 oz. magnets	18" laminated cone with rubber surround, 225 oz. magnet	12" mica-graphite poly cone with rubber surround, 88 oz. magnet	10" mica-graphite poly cone with rubber surround, 54 oz. magnet	(2) 10" drivers with rubber surrounds and neodymium magnets	(2) 10" drivers with rubber surrounds and neodymium magnets	(3) 6 x 9" mica-graphite poly cones with rubber surrounds & cast frames, 24 oz. magnets
Driver Control	High saturation filter circuit to eliminate resonance peak	High saturation filter circuit to eliminate resonance peak	High saturation filter circuit to eliminate resonance peak	High saturation filter circuit to eliminate resonance peak	High saturation filter circuit to eliminate resonance peak	High saturation filter circuit to eliminate resonance peak	High saturation filter/circuit to eliminate resonance peak
Nominal Impedance	4 Ω (2.5 minimum)	4 Ω (2.5 minimum)	4 Ω (2.5 minimum)	4 Ω (2.5 minimum)	4 Ω (2.5 minimum)	4 Ω (2.5 minimum)	4 Ω (2.5 minimum)
Frequency Response	24 - 150 Hz	23 - 150 Hz	20 - 150 Hz	25 - 150 Hz	27 - 150 Hz	27 - 150 Hz	27 - 150 Hz
Sensitivity (2.83 V @ 1 M)	86 dB	87 dB	81 dB	81 dB	80 dB	80 dB	80 dB
Power Handling	500 W	600 W	500 W	400 W	500 W	500 W	500 W
Magnetic Shielding	No	No	No	No	No	No	No
Binding Posts	Gold-plated; #4 AWG Max	Gold-plated; #4 AWG Max	Gold-plated; #4 AWG Max	Gold-plated; #4 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #8 AWG Max	Nickel-plated; #8 AWG Max
Enclosure	Sealed Isobaric	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed