

Control4® Controller Comparison Table

	EA-1	EA-3	EA-5	HC-250	HC-800
System					
Processor	1.2 GHz dual-core X86	1.2 GHz dual-core X86	1.6 GHz dual-core X86	1 GHz	1.8 GHz
Internal storage (project, apps, custom wallpaper)	8 GB shared with OS	8 GB shared with OS	8 GB shared with OS	2 GB storage + 512 MB OS	4 GB storage + 1 GB OS
RAM	2 GB	2 GB	2 GB	512 MB	1 GB
Audio/Video					
Video out	1 video out—HDMI	1 video out—HDMI	1 video out—HDMI	2 video out—HDMI, component	2 video out—HDMI, component
Video format	HDMI 1.4 output; HD 1080p, 50-60 Hz	HDMI 1.4 output; HD 1080p, 50-60 Hz	HDMI 1.4 output; HD 1080p, 50-60 Hz	HD 720p 50-60 Hz, 480p	HD 720p 50-60 Hz, 480p
Audio out	1 audio out—HDMI	3 audio out—1 HDMI, 1 stereo analog (3.5 mm), 1 digital coax	5 audio out—1 HDMI, 2 stereo analog, 2 digital coax	2 audio out—1 HDMI, 1 stereo analog (3.5 mm)	4 audio out—1 HDMI, 1 digital coax, 2 stereo analog
Audio in	—	2 audio in—1 stereo analog (3.5 mm), 1 digital coax	4 audio in—2 stereo analog, 2 digital coax	1 audio in—stereo analog (3.5 mm)	1 audio in—stereo analog
Audio playback formats	AAC, AIFF, ALAC, FLAC, M4A, MP2, MP3, MP4/ M4A, Ogg Vorbis, PCM, WAV, WMA	AAC, AIFF, ALAC, FLAC, M4A, MP2, MP3, MP4/ M4A, Ogg Vorbis, PCM, WAV, WMA	AAC, AIFF, ALAC, FLAC, M4A, MP2, MP3, MP4/ M4A, Ogg Vorbis, PCM, WAV, WMA	MP3: 32 kbps to 320 kbps, CBR, VBR, AAC, and FLAC	MP3: 32 kbps to 320 kbps, CBR, VBR, AAC, and FLAC
High-resolution audio playback	Up to 192 kHz / 24 bit	Up to 192 kHz / 24 bit	Up to 192 kHz / 24 bit	44.1 kHz / 16 bit	44.1 kHz / 16 bit
Advanced audio subsystem	—	Dedicated audio signal processor	Dual audio signal processors, multiple sample rate converters	—	—
Audio system controls	—	(analog only) 10-band graphic equalizer, input gain, output gain, loudness, tone controls, balance	(analog and digital coax) 10-band graphic equalizer, input gain, output gain, loudness, tone controls, balance	—	—
Signal-to-noise ratio	—	<-110 dBFS	<-118 dBFS	—	—
Total harmonic distortion	—	0.0015 (-96.5 dB)	0.00023 (-110 dB)	—	—
Music services	Pandora®, Rhapsody® (Napster®), TuneIn, TIDAL, Deezer	Pandora®, Rhapsody® (Napster®), TuneIn, TIDAL, Deezer	Pandora®, Rhapsody® (Napster®), TuneIn, TIDAL, Deezer	Pandora®, Rhapsody® (Napster®), TuneIn, TIDAL, Deezer	Pandora®, Rhapsody® (Napster®), TuneIn, TIDAL, Deezer
ShairBridge	Up to 20 instances of the driver in the project, 1 concurrent stream	Up to 20 instances of the driver in the project, 3 concurrent streams	Up to 20 instances of the driver in the project, 5 concurrent streams	As secondary controller only	Up to 20 instances of the driver in the project, 4 concurrent streams
Network					
Ethernet	10/100/1000BaseT compatible (required for controller setup)	10/100/1000BaseT compatible (required for controller setup), PoE+ supported	10/100/1000BaseT compatible (required for controller setup)	10/100BaseT compatible (required for controller setup)	10/100/1000BaseT compatible (required for controller setup)
Power over Ethernet (PoE)	—	802.3t-2009 (PoE+) / 25.5W	—	802.3af / 12.95W	—
Built-in switch	—	1 Ethernet/PoE in + 1 Ethernet switch port	1 Ethernet in + 4 gigabit Ethernet switch ports	—	—
Wireless	Wireless-N (2.4 GHz, 802.11n/g/b)	Dual-band Wireless-N (2.4 GHz, 5 GHz, 802.11n/g/b)	Dual-band Wireless-N (2.4 GHz, 5 GHz, 802.11n/g/b)	Wireless-N (2.4 GHz, 802.11n/g/b)	Wireless-N (2.4 GHz, 802.11n/g/b)
Wireless security	WEP, WPA, and WPA2	WEP, WPA, and WPA2	WEP, WPA, and WPA2	WEP, WPA, and WPA2	WEP, WPA, and WPA2
Wireless antenna	External reverse SMA connector	2 external reverse SMA connectors	2 external reverse SMA connectors	Internal	External reverse SMA connector
ZigBee Pro	802.15.4	802.15.4	802.15.4	802.15.4	802.15.4
ZigBee antenna	External reverse SMA connector	External reverse SMA connector	External reverse SMA connector	Internal	External reverse SMA connector
USB port	1 USB 2.0 port	1 USB 2.0 port	1 USB 2.0 port	1 USB 2.0 port	1 USB 2.0 port
eSATA port	—	—	1 eSATA port	—	1 eSATA port
Control					
IR out	4 IR out, 1 IR blaster, front	6 IR out, 1 IR blaster, front	8 IR out, 1 IR blaster, front	4 IR out, 1 IR blaster, front	6 IR out, 1 IR blaster, front
IR capture	1 IR receiver, front	1 IR receiver, front	1 IR receiver, front	1 IR receiver, front	1 IR receiver, front
Serial out	2 serial out—shared with IR out 1 and 2	3 serial out—shared with IR out 1-3	4 serial out—2 DB9 ports and 2 shared with IR out 1-2	2 serial out—shared with IR out 1 and 2	2 serial out—DB9
Contact	—	1 contact sensor	4 contact sensors	1 contact sensor	4 contact sensors
Relay	—	1 relay	4 relays	1 relay	4 relays
Power					
Power requirements	100-240VAC, 60/50 Hz	100-240VAC, 60/50 Hz or PoE+	100-240VAC, 60/50 Hz	100-240VAC, 60/50 Hz or PoE+	100-240VAC, 60/50 Hz
Power consumption	Max: 18W, 61 BTUs/hour Idle: 12W, 41 BTUs/hour	Max: 25W, 85 BTUs/hour Idle: 13W, 44 BTUs/hour	Max: 40W, 136 BTUs/hour Idle: 15W, 51 BTUs/hour	Max: 30W, 103 BTUs/hour Idle: 10W	Max: 44W, 150 BTUs/hour Idle: 15W
Other					
Fan dB level	Max: 35 dB	Max: 35 dB	Max: 35 dB	—	—
Dimensions (H × W × D)	1.13" (29 mm) × 7.5" (191 mm) × 5.0" (127 mm)	1.25" (31 mm) × 8.75" (221 mm) × 5.875" (149 mm)	1.875" (49 mm) w/feet × 17.5" (444 mm) × 10.125" (258 mm)	1.23" (31 mm) × 8.59" (218 mm) × 4.92" (125 mm)	1.98" (50 mm) × 17.32" (440 mm) × 9.15" (232 mm)
Weight	1.2 lbs (0.54 kg)	1.60 lbs (0.74 kg)	6.85 lbs (3.10 kg)	1.8 lbs (0.82 kg)	6.1 lbs (2.77 kg)
Shipping weight	2.2 lbs (1.0 kg)	2.75 lbs (1.26 kg)	9.30 lbs (4.20 kg)	2.7 lbs (1.22 kg)	8.45 lbs (3.83 kg)
Accessories					
Wall-Mount Bracket	C4-WMEA1	C4-WMEA3 (included in box)	—	—	—
Rack-Mount Kit	C4-EA1RMK1, C4-EA1RMK2	C4-EA3RMK1, C4-EA3RMK2	(rack ears included in box)	C4-IURMK1B-B, C4-IURMK2B-B	C4-IUREK-BL



For more information on the entire EA Series, visit ctrl4.co/ea



For product photos, documentation, and installation instructions, visit ctrl4.co/controllers



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