

KARTY MATERIAŁOWE

**DO PROJEKTU BUDOWLANEGO PN. PRZEBUDOWA CZĘŚCI BUDYNKU
USŁUGOWEGO URZĘDU MIEJSKIEGO W TRZEBNICY NA GALERIĘ SZTUKI I PUNKT
INFORMACYJNY WRAZ Z REMONTEM ELEWACJI, PRZEBUDOWĄ
ZAGOSPODAROWANIA STREFY WEJŚCIOWEJ ORAZ INFRASTRUKTURĄ
TECHNICZNĄ**

**TRZEBNICA, PL. MARSZAŁKA J. PIŁSUDSKIEGO 1,
DZ. NR 326, AM-7, OBRĘB TRZEBNICA, M. TRZEBNICA**

BRANŻE: ARCHITEKTURA	
INWESTOR:	GMINA TRZEBNICA pl. J. Piłsudskiego 1 55-100 Trzebnica tel. (71) 3120611, fax (71) 3121248
ZADANIE I ADRES:	PRZEBUDOWA CZĘŚCI BUDYNKU USŁUGOWEGO URZĘDU MIEJSKIEGO W TRZEBNICY NA GALERIĘ SZTUKI I PUNKT INFORMACYJNY WRAZ Z REMONTEM ELEWACJI, PRZEBUDOWĄ ZAGOSPODAROWANIA STREFY WEJŚCIOWEJ ORAZ INFRASTRUKTURĄ TECHNICZNĄ TRZEBNICA, PL. MARSZAŁKA J. PIŁSUDSKIEGO 1, 55-100 TRZEBNICA
NUMER EWIDENCYJNY DZIAŁKI:	DZ. NR 326, AM-7, OBRĘB TRZEBNICA, M. TRZEBNICA
DATA OPRACOWANIA:	11.2017

TOM III

WYPOSAŻENIE MULTIMEDIALNE I WYPOSAŻENIE WNĘTRZ

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WYKAZ KART
WYPOSAŻENIA MULTIMEDIALNEGO
TOM III

1. Stanowsko A_W1_Monitor dotykowy – MSADB22D-P
2. Stanowsko A_W2_Monitor dotykowy w obudowie W2 – PDSAPH55F
3. Stanowsko D_Projektor krótkoogniskowy – U321H
4. Stanowsko SN_Głośnik do zabudowy sufitowej - Eccler_IC_SERIES_Brochure_EN
5. Stanowsko SN_Odtwarzacz tła muzycznego – Eccler_DUO-NET_PLAYER_Brochure_EN
6. Stanowsko SN_Wzmacniacz 4-strefowy -Eccler_eHSA_SERIES_Brochure_EN
7. Stanowsko SO_Moduł sterowania oświetleniem DALI – din-8sw8
8. Stanowsko SZ_Moduł sterowania prądowy – din-dali-2
9. Stanowsko SZ_Moduł sterowania urządzeniami -cp3
10. Stanowsko SZ_Panel sterowania W5-W6 – jITarO4duMFip46jCBYV58-3T0
11. Stanowsko SZ_Stacja dokująca naścienna do paneli – idoc-pad-lca2-dswc
12. Krzesła biurowe
13. Siedziska tapicerowane

Samsung DB22D-P display

Provide an immersive viewing experience with wide viewing angle panel

Highlights

- Experience the advantages of a highly-reliable professional-grade display backed by 3-year warranty.
- Boost power and functionality with the 2nd Generation Samsung SMART Signage Platform (SSSP)
- Project crisp, clear images with FHD output and a wide viewing angle (WVA) panel for the ultimate viewing experience
- Simplify networking with a built-in Wi-Fi module
- Leverage the Samsung global brand identity
- Gain flexibility with a compact, 21.5" screen size

Rely on the dependability of Samsung professional-grade displays

Unlike consumer electronics which often results in shorter equipment life spans and malfunctions, Samsung small-sized displays are designed to withstand the rigorous work hours of a commercial environment. In addition, Samsung small-sized displays deliver effective messaging for your business with a WVA display panel.

Captivate audiences with a dynamic WVA display panel

The Samsung DB22D-P model boasts an impressive wide viewing angle (WVA) panel. Samsung's WVA technology results in an improved viewing angle experience, typically not seen in displays of this kind, and increased brightness for enhanced FHD image quality, clarity and flexibility.



Empower with 2nd Generation SSSP and Samsung's respected branding

Experience unparalleled performance with Samsung's industry-leading 2nd Generation SSSP and powerful quad-core processor with SoC technology. Plus, eliminate the need for a separate PC or media player with the included MagicInfo Player S2 all-in-one, embedded content management solution.



The technological power of the DB22D-P is backed by Samsung's reputation for engineering reliable, cutting-edge digital signage. Its leadership in the industry has made it a global powerhouse in serving the B2B industry and a name that is trusted worldwide.




Samsung DB22D-P display

Specifications

			DB22D-P
Panel	Diagonal Size		21.5"
	Type		60 Hz E-LED BLU
	Resolution		1,920 x 1,080
	Pixel Pitch (mm/in.)		0.2482 x 0.2482 (0.009 x 0.009)
	Active Display Area (mm/in.)		476.6 x 268.1 (18.7 x 10.5)
	Brightness (Typ.)		250 nit
	Contrast Ratio (Typ.)		1000:1
	Viewing Angle (H/V)		178 / 178
	Response Time (G-to-G)		14 ms
	Display Colors		16.7 M
	Color Gamut		72%
Display	Dynamic C/R		50,000:1
	H-Scanning Frequency		30 ~ 81 KHz
	V-Scanning Frequency		48 ~ 75 Hz
	Maximum Pixel Frequency		148.5 MHz
Sound	Speaker Type		Built-in Speaker (1W x 2)
Connectivity	Input	RGB	Analog D-SUB
		VIDEO	HDMI®
		AUDIO	Stereo mini Jack
	External Control		RS232C(in) thru stereo jack, RJ45
	IO Ports		USB 2.0
Power	Type		Internal
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
	Power Consumption	Max [W/h], Typical [W/h]	44, 40
		BTU (Max)	150.04
		Sleep mode	less than 0.5 W
		Off mode	less than 0.5 W
Mechanical Spec	Dimension (mm/in.)	Set	507.5 x 311.2 x 57.8 (19.9 x 12.2 x 2.2)
		Package	570 x 376 x 128 (22.4 x 14.8 x 5)
	Weight (kg/lb)	Set	3.6 (7.9)
		Package	4.9 (10.8)
	VESA Mount (mm)		100 x 100
Operation	Operating Temperature		0 ~ 40 °C
	Humidity		10 ~ 80%
Feature	Key		Slim & Light SMART Signage with Built-in MagicInfo Player S2
	Special	H/W	Temperature Sensor, Pivot Display, Image Rotation, Button Lock, Clock Battery (80 hrs Clock Keeping), Built-in Speaker, WiFi Module Embedded
		S/W	Magic Clone (to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC, Plug and Play (DDC2B), PIP/PBP, Smart Scheduling, Smart F/W update, Built-In MagicInfo Player S2
	Internal Player (Embedded H/W)	Processor	Cortex®-A9 1 GHz Quad Core CPU
		Storage (FDM)	4 GB (2 GB occupied by O/S, 2 GB available)
Certification	Safety		cUL, TUV, CB, EK, PSB, GOST, SIQ, PCBC, NOM, IRAM, SASO, BIS
	EMC		FCC, CE, VCCI, KCC, BSMI, C-Tick, CCC
Accessories	Included		Quick Setup Guide, Warranty Card, D-Sub cable, Power Cord, Remote Controller, Batteries

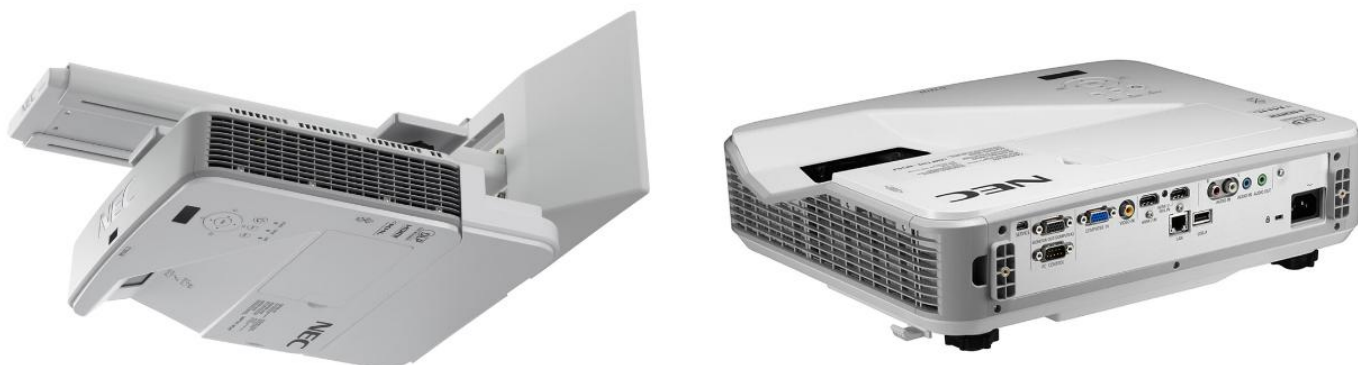
Model			Digital Signage "PH-Serie"
PH55F LH55PHFPBGC/EN			 
Panel	Diagonal Size		55"
	Type		60Hz E-LED BLU
	Resolution		1920x1080 (16:9)
	Pixel Pitch(mm)		0.490(H) x 0.490(V)
	Active Display Area(mm)		
	Brightness(Typ.)		700nit
	Contrast Ratio(Typ.)		5000:1
	Viewing Angle(H/V)		178:178
	Response Time(G-to-G)		8ms
	Display Colors		10bit Dithering - 1.07Billion
	Color Gamut		72%
	Operation Hour		24/7
	Haze		25%
Display	Dynamic C/R		Mega
	H-Scanning Frequency		30 ~ 81kHz
	V-Scanning Frequency		48 ~ 75Hz
	Maximum Pixel Frequency		148.5MHz
Sound	Speaker Type		Built in Speaker(10W + 10W)
Connectivity	INPUT	RGB	DVI-I(D-Sub Common), Display Port 1.2 (2)
		VIDEO	HDMI (2)
		AUDIO	Stereo mini Jack
		USB	USB 2.0 x 2
	OUTPUT	RGB	DP1.2(Loop-out)
		VIDEO	N/A
		AUDIO	Stereo mini Jack
		Power Out	N/A
	EXTERNAL CONTROL		RS232C (in/out) thru stereo jack, RJ45
	EXTERNAL SENSOR		N/A
Power	Tuner		N/A
	Type		Internal
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
	Power Consumption	Max[W/h]	TBD
		Typical[W/h]	TBD
		BTU(Max)	TBD
		Sleep/Off mode	less than 0.5W
Mechanical Specs	Dimension (mm)	Set	1228.4 x 701.2 x 29.9
		Package	TBD
	Weight (kg)	Set	TBD
		Package	TBD
	VESA Mount		400x400
	Protection Glass		N/A
	Stand Type		Foot Stand (Optional)
Operation	Bezel Width (Top/Side/Bot) (mm)		6.9/6.9/8.9
	Operating Temperature		0°C~ 40°C
	Humidity		10~80%
Feature	Key		Slim & Light Signage with Built-in MagicInfo S4, SSSP 4.0
	Special	H/W	Non Glare Panel, Temperature Sensor, Video Wall(15x15(OSD)), Video Wall Daisy Chain(16), Pivot Display, Clock Battery(80hrs Clock Keeping), Built in Speaker(10W x 2), WiFi Module Embedded, IP5x, Center IR
		S/W	Magic Clone(to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC, Plug and Play, PIP/PBP, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain(HDCP Support), Firmware Update by Network, New Home Screen, PC-less VideoWall, Multi Channel, Mobile Control, Event Schedule, Backup Player

PH55F LH55PHFPBGC/EN			
Feature	Internal Player (Embedded H/W)	Processor	Cortex-A12 1.3GHz Quad Core CPU
		On-Chip Cache Memory	L1 (I/D) : 32KB / 32KB L2 (Unified) : 1MB
		Clock Speed	1.3GHz CPU Quad
		Main Memory Interface	2.5GB 3 channel 96bit DDR3-933 (1866MHz)
		Graphics	2D & 3D Graphics Engine - Up to 3840x2160p. 32bpp - Supports OpenGL ES
		Storage	8GB (3.75GB Occupied by O/S, 4.25GB Available,)
		Multimedia	Video Decoder - MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC - VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.
		IO Ports	USB 2.0
		Operating System	Tizen 2.4 (VDLinux)
Certification	Safety	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PSB+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS (India) : IEC60950-1 / IS13252 NOM (Mexico) : Tuner : NOM-001-SCFI-1993 Tunerless : NOM-019-SCFI-1998 KC (Korea) : K 60950-1 EAC (Russia) : EAC+IEC60950-1 INMETRO (Brazil) : INMETRO+IEC60950-1 BSMI (Taiwan) : BSMI+IEC60950-1 RCM (Australia) : IEC60950-1/AS/NZS 60950-1 UL (USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE	
	EMC	FCC (USA) Part 15, Subpart B Class A CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : Tuner : KN13 / KN20 Tunerless : KN22 / KN24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC (China) : GB9254-2008 GB17625.1-2012 GOST (Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003	
	Environment	ENERGY STAR 7.0 (USA)	
Accessories	Included		Quick Setup Guide, Regulatory Guide , Warranty Card, Power Cord, Remote Controller, Batteries, RS232C(IN) adapter, Cover Jack
	Optional	Stand	STN-L4655E
		Mount	WMN4270SD
		Specialty Media Player	CML450H SBB

U321H

profesjonalny projektor Ultra-Short-Throw

Karta produktu



Rozdzielczość 1080p oraz kontrast 10 000:1 gwarantują perfekcyjną jakość obrazu podczas wyświetlania przez projektor U321H treści o bardzo dużym stopniu szczegółowości oraz filmów w wysokiej jakości, w tym materiałów 3D z odtwarzaczy Blu-ray dzięki obsłudze technologii HDMI 3D. Ten projektor o ultrakrótkim rzucie wymaga niewielkiej przestrzeni w małych i średnich salach lekcyjnych i konferencyjnych oraz może wyświetlać obrazy na ekranach o rozmiarach od 85 do 100" bez generowania cieni czy odbłasków. W wymagających zastosowaniach w edukacji wyższej, np. przy kształceniu projektantów i inżynierów, szczególne uznanie zyska rozdzielczość 1080p zapewniająca wysoki poziom szczegółowości. Na późniejszym etapie można uzupełnić model o funkcje interaktywne dzięki opcjom obsługi wielu pisaków i/lub dotyku wielokrotnego.

Model U321H szczególnie dobrze sprawdza się w salach lekcyjnych oraz w małych i średnich salach konferencyjnych.

Korzyści

Doskonała jakość obrazu – dzięki rozdzielczości 1080p i kontrastowi 10000:1.

Prawie całkowity brak cieni i odbłasków – dzięki ultrakrótkiemu rzutowi.

Opcjonalna interaktywność z obsługą wielu pisaków – z rzeczywistą obsługą gestów na dowolnej powierzchni.

Możliwości podłączeń na wiele lat – w tym MHL oraz obsługa sieci.

Dołączony zestaw do montażu na ścianie – pozwala na szybkie i proste zainstalowanie urządzenia i jest zgodny z systemami umożliwiającymi regulację wysokości.

Ekonomiczna wymiana – istniejących instalacji NEC serii UM, aby uzyskać wyższe rozdzielczości bez zmiany pozycji zamocowanych uchwytów ściennych.

3D ready – wybiegająca w przyszłość technologia DLP®-Link™ o częstotliwości 120 Hz.

Bezpłatna licencja programów DisplayNote w wersji dla wielu użytkowników oraz Mosaic Canvas Whiteboard – z opcjonalną licencją programu DisplayNote dla wielu użytkowników lub programem Mosaic Canvas Whiteboard zamieni to urządzenie interaktywne w centrum nowoczesnego pomieszczenia konferencyjnego.

Informacje o produkcie

Nazwa produktu	U321H
Grupa produktowa	profesjonalny projektor Ultra-Short-Throw
Kod produktu	60003952

Parametry optyczne

Technologia projekcji	1-chip DLP™ Technology
Rozdzielczość natywna	1920 x 1080 (FULL-HD)
Proporcje obrazu	16:9
Kontrast ¹	10000:1
Jasność ¹	3200 ANSI Lumenów (ok. 85% w trybie Eco)
Moc lampy	260 W AC (220 W AC Tryb Eco)
Żywotność lampy [godz]	3000 (4000 Tryb Eco)
Obiektyw	F= 2.4, f= 3.72 mm
Przesunięcie obiektywu [%]	65
Kąt projekcji [°]	57
Współczynnik projekcji	0.25 : 1
Odległość projekcji [m]	0.195 – 0.306
Wielkość (przekątna) ekranu [cm] / [cale]	Maksymalnie: 254 / 100"; Minimalnie: 215 / 85"
Zoom	Zoom cyfrowy
Regulacja ogniskowej	Ręczne
Obsługiwane rozdzielczości	1920 x 1080 (HDTV 1080i/60; HDTV 1080i/50); 1680 x 1050 (WSXGA+); 1600 x 1200 (UXGA); 1600 x 900 (WXGA++); 1440 x 900 (WXGA+); 1400 x 1050 (SXGA+); 1366 x 768 (WXGA); 1360 x 768 (WXGA); 1280 x 1024 (SXGA); 1280 x 1024 (MAC 23"); 1280 x 960 (SXGA); 1280 x 800 (WXGA); 1280 x 768 (WXGA); 1280 x 720 (HDTV 720p); 1152 x 870 (MAC 21"); 1152 x 864 (XGA); 1024 x 768 (XGA); 832 x 624 (MAC 16"); 800 x 600 (SVGA); 720 x 576 SDTV 480p/480i; 720 x 480 SDTV 576p/576i; 640 x 480 (VGA/MAC 13")
Częstotliwość	Pionowa: 50 – 120 Hz; Pozioma: 15–100 kHz (RGB: 24 kHz– 100 kHz)

Możliwości podłączania

Komputer (analogowe)	Wejście: 1 x Mini D-sub 15-pin, kompatybilne z component (YPbPr) Wyjście: 1 x Mini D-sub 15 pin
Cyfrowe	Wejście: 1 x HDMI™ (głębia koloru, synchronizacja obrazu i dźwięku); 1 x HDMI™ z obsługą MHL
Sygnał video	Wejście: 1 x RCA
Audio	Wejście: 1 x 3.5 mm Stereo Mini Jack; 1 x RCA Stereo Wyjście: 1 x 3.5 mm Stereo Mini Jack (variable)
Control	Wejście: 1 x D-Sub 9 pin (RS-232) (męskie)
LAN	1 x RJ45
USB	1 x Type A (USB 2.0 high speed); Mini USB: 1
Video	NTSC; NTSC 3.58; NTSC 4.43; PAL; PAL-M; PAL-N; PAL60; SECAM

Funkcje pilota

Funkcje pilota	Automatyczne dostosowanie geometrii obrazu; Bezpośredni wybór wejścia sygnału; Dostosowanie obrazu; Help-function; Kontrola audio; Numer ID; Prezentacja i sterowanie myszką; Proporcje obrazu; Tryb Help Eco; Wyciszenie AV; Zatrzymanie obrazu; Zoom cyfrowy
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Parametry elektryczne

Zasilanie	100-240 V AC; 50 - 60 Hz
Pobór mocy [W]	312 (Normal) / 264 (ECO) / 2,2 (Network Stand-by) / 0,3 (Stand-by)

Parametry mechaniczne

Wymiary [mm]	383 x 85 x 308 (bez nóżek i obiektywu)
Waga [kg]	4.7
Poziom szumu [dB (A)]	29 / 34 (Eco / Normal)

Warunki otoczenia

Temperatura otoczenia podczas pracy [°C]	5 do 40
Wilgotność otoczenia podczas pracy [%]	20 do 80 non-condensing
Temperatura przy przechowywaniu [°C]	-20 do 60
Wilgotność przy przechowywaniu [%]	20 do 90 non-condensing

Ergonomia

Bezpieczeństwo i ergonomia	CE; Gost-R; RoHS; TÜV GS
Głośniki [W]	1 x 8 (mono)

Dodatkowe Funkcje

Cechy Specjalne	AMX Beacon; Automatyczny start i automatyczne wyłączenie; Automatyczny tryb ECO; Blokada klawiszy OSD; Crestron RoomView; Funkcja Direct Power-Off; Funkcja lupy; Gniazdo zabezpieczające typu K-Slot; Korekcja koloru ściany; Menu OSD w 30 językach; Możliwość wyświetlania obrazów 3D; NaViSet Administrator 2; Opcjonalne logo użytkownika; PJ LINK; Plansza kontrolna; Ręczna, pionowa korekcja efektu trapezowego ($V = \pm 5^\circ$); Symulacja standardu DICOM; Szybki start i szybkie wyłączenie; Timer czasu wyłączenia; Tryb High-altitude; Zabezpieczenie hasłem; Zabezpieczenie przed nieautoryzowanym użyciem; Zdalne sterowanie i zarządzanie przez LAN i interfejs RS232
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Funkcje eko

Materiały ekologiczne	Instrukcje do pobrania w wersji elektronicznej; Opakowania Eko; Opakowania w 100% recyklowalne
Normy ekologiczne	Zgodność z ErP; Zgodność z RoHS

Gwarancja

Na projektor	Serwis w całej Europie przez 3 lata
Źródło światła	6 miesięcy, maksymalnie. 1000 godzin

Zawartość opakowania

Zawartość opakowania	Kabel Sygnałowy Mini D-SUB (1,8 m); Kabel zasilający; Krótka instrukcja obsługi; Pilot (RD469E); Płyta mocująca; Security Sticker; Users Manual; Zestaw do montażu na ścianie NP04WK
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Wyposażenie dodatkowe

Dostępne akcesoria	Automatyczny Uchwyt Naścienny PJ03WHA z Regulacją Wysokości; DisplayNote; Lampa (NP34LP); Mobilny Automatyczny Uchwyt Naścienny NP02HM; PJ03MHA; Okulary DLP-Link 3D (NP02GL, Volfoni-Fit); Uchwyt Naścienny PJ03WHM z Regulacją Wysokości
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¹ Zgodność z ISO21118-2012



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Wszelkie prawa zastrzeżone na rzecz ich właścicieli. Wszystkie nazwy sprzętu i oprogramowania to nazwy własne marek i/lub zastrzeżonych znaków towarowych odpowiednich producentów. Wszystkie specyfikacje mogą podlegać zmianom bez uprzedniego powiadamiania. Zastrzega się możliwość wystąpienia błędów i niekompletności danych. 29.11.2017



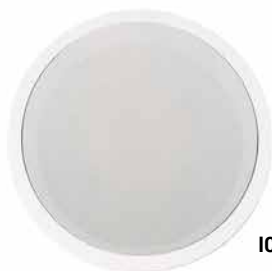
IN-CEILING/ IC Series

In-Ceiling/In-Wall Loudspeakers

APPLICATIONS

- Corporate and residential buildings
- Commercial premises
- Leisure centres
- Sound reinforcement in clubs, bars, etc.
- Health and sports centres
- Meeting and conference rooms
- 5.1 and 7.1 surround systems
- Auditoriums, museums

IC5 / IC6 / IC8 / ICSB10 loudspeaker is the perfect option for 70/100 V and low impedance sound solutions. IC series provide excellent sound quality thanks to their infinite baffle philosophy and a top-performance high frequency transducer.



IC5



IC6



IC6



IC8



ICSB10

KEY FEATURES

- ABS speaker
- Built-in audio transformer for 70/100 V use
- Polypropylene woofer that resists heat and humidity
- Front grill may be removed for painting
- Aluminium front grill, rust-proof
- Clip-type input terminals and low impedance / high impedance power tap selector
- Cutting and painting templates included
- Support system with 3 rotating tabs
- IC6 available in black and white finish

	IC5	IC6	IC8	ICSB10
RMS power / Program power (8Ω)	25W / 50W	40W / 80W	60W / 120W	100W / 200W
Woofer / tweeter	5" / 0,5"	6" / 1"	8" / 1"	10" / -
Power selector @ 100V	1,5/3/6/12 W	2,5/5/7,5/15 W	5/7,5/15/30 W	7,5/15/30/60 W
SPL 1W/1m	86 dB	88 dB	89 dB	90 dB
Dimensions / Weight	IntxExt (mm): 166x191 / 1,2 kg.	IntxExt (mm): 178x204 / 1,5 kg.	IntxExt (mm): 220x245 / 2,3 kg.	IntxExt (mm): 305x335 / 3,4 kg.



AUDIO PLAYERS/ DUO-NET PLAYER

Dual Audio Player

APPLICATIONS

- Audio sound source in A/V corporate, retail and education applications
- BGM & Paging solutions, with message priorities and independent audio source independent selection
- Integration in installation global control systems

DUO-NET PLAYER is a double audio sound source that features full EclerNet compatibility (EclerNet Manager software, UCP control system, WPMSCREEN remote management, TP-NET third party integration protocol, etc.). It includes 2 independent stereo media players, each one being able to play Internet audio streams and local or networked audio media. DUO-NET PLAYER can be used as a stand-alone media player or integrated as a piece of a full EclerNet system, as well as coexisting with third-party devices.



KEY FEATURES

- 2 independent media players, each one linked to a dedicated stereo output
- Compatible with mp3, ogg, AAC, WAV and FLAC audio formats
- SD and USB slots for local storage media contents
- Ethernet interface (RJ45 connector) for EclerNet and TP-NET control, Internet streaming reception and networked media playback
- Fully programmable and controllable via EclerNet software
- UCP (User Control Panels) remote control system, compatible with WPMSCREEN and third-party client devices (iOS®, Windows® and Android®)
- 4 GPI ports (General Purpose Inputs) to trigger events
- Integrated RTC (Real-Time Clock) and NTP (Network Time Protocol) synchronization, for scheduled events triggering
- IR remote control for basic end-user control
- Priority media (emergency, advertising, etc.) over program audio

	DUO-NET PLAYER
Audio Output	2 x stereo balanced, LINE level, Euroblock type
Communication Interfaces	1 x Ethernet (RJ45), 1x RS-232 (DB9), 4 x GPI (Euroblock)
Local Media	USB, SD/SDHC
Remote Control	Included IR type, 35 keys
Dimensions	482mm x 44mm x 250mm (1 RU)

ACCESSORIES

- WPMSCREEN





HIGH IMPEDANCE/ eHSA2-150 / eHSA4-150

High Impedance Multichannel Amplifiers

APPLICATIONS

- Single or multi-zone BGM and paging systems with 100V line speakers, combined with the DAM, MIMO and SAM / eSAM series preamplifiers / processors

eHSA2-150 is a stereo amplifier with high impedance powered outputs. A very high efficiency and its auto stand-by function provide this amplifier with a true green profile.

eHSA4-150 is a multichannel amplifier with high impedance powered outputs. A very high efficiency and its auto stand-by function provide this amplifier with a true green profile.



eHSA 2-150



eHSA 2-150



eHSA 4-150



eHSA 4-150

KEY FEATURES

- 150 W RMS outputs (70/ 100V line level)
- Euroblock output connectors
- High efficiency, auto stand-by function and convection cooling (fanless, 100% silent)
- Thermal protection
- Overload protection
- Anti-clip system
- Volume control knobs on front panel

	eHSA2-150	eHSA4-150
1 channel @ 70/100V (RMS)	145W	145W
All channels @ 70/100V (RMS)	142W	140W
Dimensions / Weigh	1RU x 221mm depth / 6,1 kg.	1RU x 341mm depth / 10,5 kg.

DIN-8SW8

DIN Rail High-Voltage Switch

The DIN-8SW8 is an 8-channel lighting control module designed to support switching of non-dimmable lighting and fans. A single model supports both 120 and 220-240 Volt applications. Each channel handles incandescent loads up to 10 Amps, fluorescent loads up to 5 Amps, and also 1/2 HP motors.*

Override Input

An override input is provided to allow an external contact closure to momentarily override the control system program and set each channel output to its override preset state. States can be set and saved locally from the front panel, or remotely via software.

DIN Rail Installation

The DIN-8SW8 is designed to snap onto a standard DIN rail for installation in a wall mount enclosure. Wiring connections are made using screw terminals positioned along the top and bottom, clearly accessible from the front for easy installation and servicing. All setup controls and indicators are positioned on the center front panel. When installed in an enclosure utilizing 45 mm cutouts, the DIN-8SW8's front panel stays accessible while the connections are concealed.

Cresnet®

The DIN-8SW8 communicates with a **DIN-AP2** 2-Series Automation Processor, or other Crestron 2-Series control system, via the Cresnet control network. A pair of Cresnet ports is provided on the DIN-8SW8 allowing for easy daisy-chaining of several DIN Rail Series automation control modules.

- > 8 channels of power switching
- > Supports 120 to 240 Volt 50/60 Hz
- > Override input
- > Cresnet communications
- > Setup via front panel or software
- > Programmable functionality via DIN-AP2
- > 9M wide DIN rail mounting

SPECIFICATIONS

Load Ratings

Switch Channels: 8

Maximum Per Channel: 10 Amps incandescent, 5 Amps fluorescent, 0.5 HP @ 120 to 240 Volts AC, 50/60 Hz;

5 Amps @ 30 Volts DC;

16 Amps Resistive

Module Total: 80 Amps incandescent, 40 Amps fluorescent @ 120 to 240 Volts AC, 50/60 Hz

Load Types*: Incandescent, Magnetic Low-voltage, Electronic Low-Voltage, Neon/Cold Cathode, Fluorescent, Motors

Connections

1 - 8: (8) sets of (2) captive screw terminals;

Isolated Class 1 SPST relay switch circuits 1 - 8;

Relay Rating: 10 Amps incandescent, 5 Amps fluorescent, 16 Amps resistive, 0.5 HP @ 240 Volts AC (per channel);



NET: (2) 4-pin 3.5mm detachable terminal blocks, paralleled;

Cresnet slave port

OVERRIDE: (2) 2-pin 3.5mm detachable terminal blocks, paralleled;

Sensing input for external low-voltage contact closure;

Activates override mode when a closure is present;

Minimum Closure Rating: 10mA (per module) at 24 Volts

Controls & Indicators

1 - 8 : (8) Red LEDs and (8) miniature pushbuttons for status indication and local control of each channel

NET ID: (2) 7-Segment green LED digits and (2) miniature pushbuttons for setting Cresnet ID

SETUP: (1) Red LED and (1) recessed miniature pushbutton for enabling setup mode and touch-settable ID

OVR: (1) Red LED and (1) miniature pushbutton for enabling override mode and saving override presets

PWR: (1) Green LED, illuminates when DC power is applied to the NET port

NET: (1) Yellow LED, indicates communication with the control processor

RESET: (1) Recessed miniature pushbutton, resets internal processor

Enclosure

Light gray polycarbonate housing with polycarbonate label overlay, UL94 V-0 rated, 35mm DIN EN 60715 rail mount, DIN 43880 form factor for enclosures with 45mm front panel cutout, occupies 9 DIN module spaces (162mm)

Power Requirements

Cresnet Power Usage: 5.4 Watts (0.23 Amps @ 24 Volts DC)

Environmental

Temperature: 32° to 104°F (0° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 18 BTU/hr

DIN-8SW8DIN Rail High-Voltage Switch

Dimensions

Height: 3.71 in (9.42 cm)

Width: 6.26 in (15.90 cm)

Depth: 2.35 in (5.95 cm)

Weight

13.1 oz (369 g)

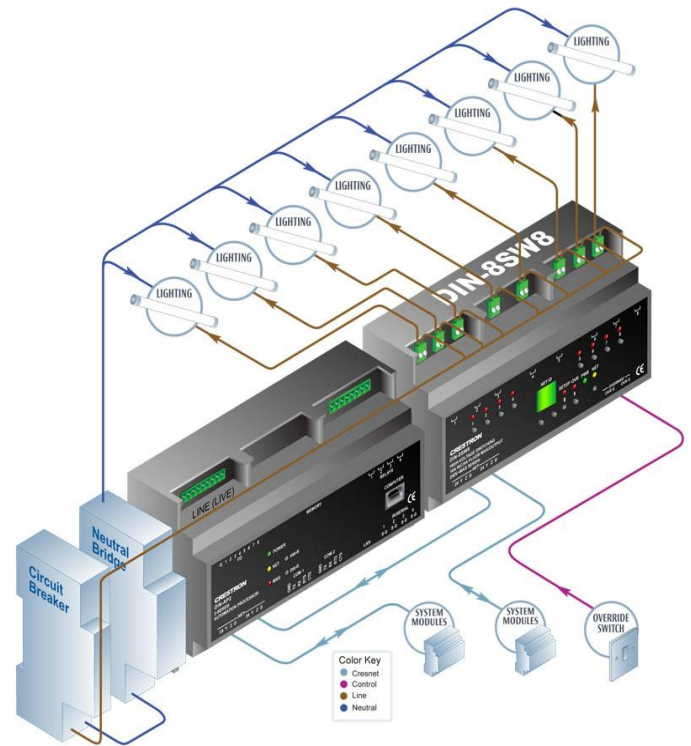
* May not be compatible with some high inrush current loads.

Available Models

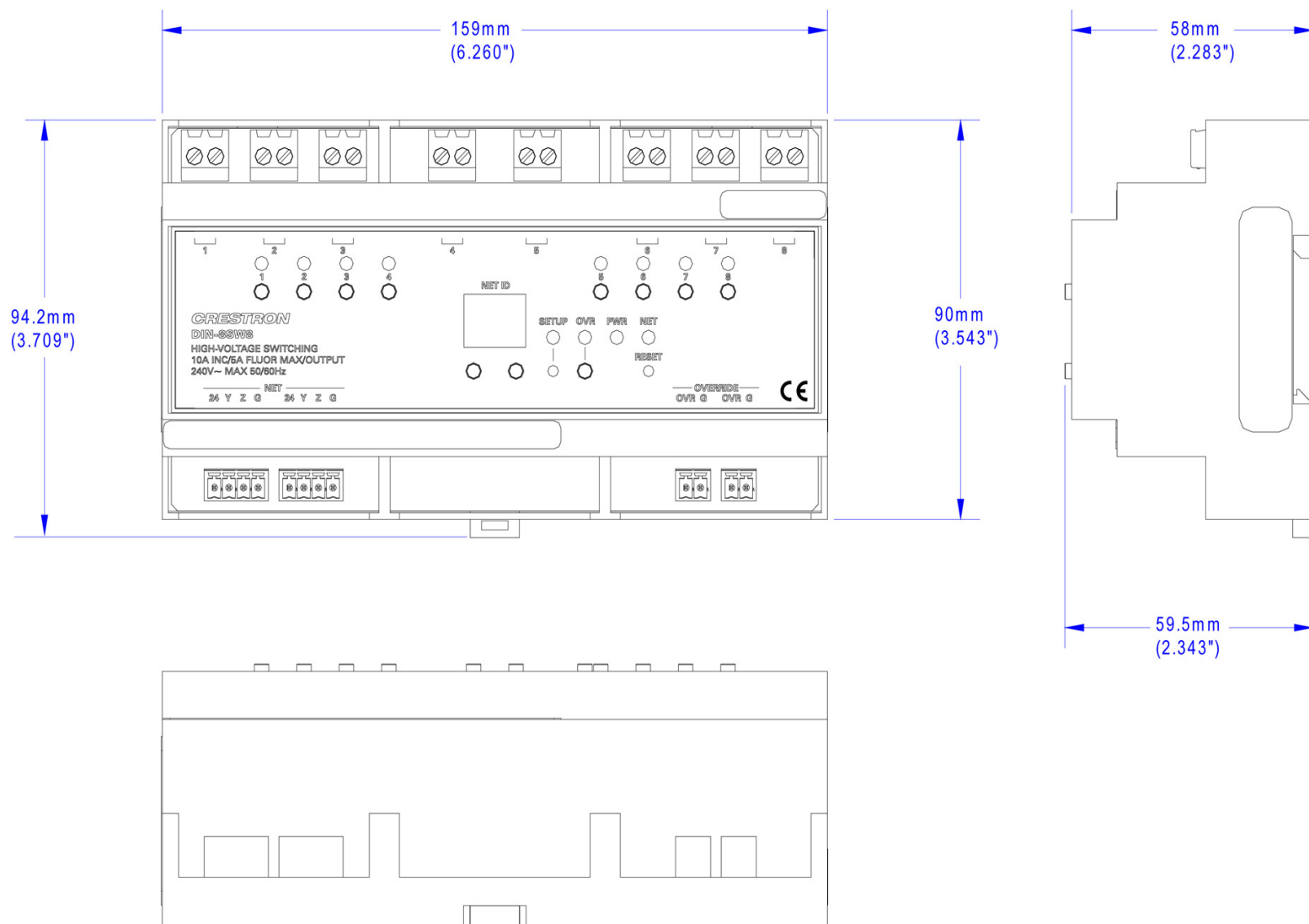
DIN-8SW8 [6501746]: DIN Rail High-Voltage Switch, 8 feeds, 8 channels

Typical DIN-8SW8 Application

DIN-8SW8 Example Application



DIN-8SW8DIN Rail High-Voltage Switch



DIN-DALI-2

DIN Rail 2-Channel DALI® Interface

- > Interfaces with 2 independent DALI® loops
- > Controls up to 128 DALI ballasts
- > Cresnet® or PoE communication for single-wire installation
- > Integrated DALI power supply
- > Crestron® DALI commissioning tool for easy setup
- > Override input
- > 9M wide DIN rail mounting
- > CEC Title 24 2013 Compliant

The DIN-DALI-2 is a DALI® interface for Crestron® systems that provides control of up to 2 individual DALI loops. Housed in a DIN-rail enclosure, the DIN-DALI-2 is a great low-profile Cresnet® or Ethernet companion to the DIN-AP3 processor, or any 3-Series® control system. In addition to controlling the DALI data bus, it includes an integrated DALI power supply. Single-wire connectivity simplifies both new and retrofit installations, and Power-over-Ethernet (PoE) versatility assists in situations with existing CAT5 infrastructure.

This product is only available as part of a complete engineered and commissioned Crestron Green Light® system. Contact [Sales Support Services](#) to obtain a quote for Factory Engineering Services and On-Site Commissioning.

Two DALI Channels

The dual-channel DALI outputs on the DIN-DALI-2 makes controlling up to 128 individual DALI ballasts easy. The Digital Addressable Lighting Interface (DALI) is a protocol used for the control of lighting in buildings and is found on ballasts available from many manufacturers. Since it offers ballast-level control, lighting loads powered from the same feed can be controlled individually. DALI is a great choice for retrofit lighting systems because it does not require changes in line voltage wiring. Likewise, DALI provides ultimate flexibility by allowing reconfiguring of zones after a system is installed.

Integrated DALI Power Supply

The innovative design of the DIN-DALI-2 eliminates the need for the external power supplies required by other DALI controllers on the market. Power is delivered via PoE or CresnetTM, creating a true single-wire installation. Both Cresnet and PoE are capable of powering all 128 DALI ballast controllers. If desired, an external power supply may be used in conjunction with the DIN-DALI-2. An onboard switch allows the installer to choose the required mode during setup.

Commissioning Tool

Designed specifically for the DIN-DALI-2, the Crestron DALI commissioning software tool facilitates system setup. The intuitive menu-driven wizard provides step-by-step configuration of ballast properties, groups, and scenes. Guided by the software, one can simply set the ballast address and check connectivity status, edit minimum/maximum levels and fade time, and change ballast groupings and scenes.



This powerful software makes ballast replacement straightforward through automatic identification of new hardware IDs. Settings from old ballasts are transferred to replacements with just a few mouse clicks, saving time and eliminating guess work and frustration.

Familiar Programming Interface

Controlling a DALI ballast is just like controlling any Crestron dimmer. Familiar visual Crestron configuration tools, as found in D3 Pro® and SIMPL™ Windows, replace complex hardware addressing and communication protocols. Crestron D3 Pro software eliminates the need for custom programming, providing a complete design, development, and documentation solution for the lighting professional.

Override Input

An override input is provided to allow an external contact closure to momentarily override the control system program and force each ballast into its defined “System Failure Level.” States can be set and saved locally from the front panel, or remotely via software.

DIN Rail Installation

The DIN-DALI-2 is designed to snap onto a standard DIN rail for installation in a wall mount enclosure. Wiring connections are made using screw terminals positioned along the top and bottom, clearly accessible from the front for easy installation and servicing. All setup controls and indicators are positioned on the center front panel. When the DIN-DALI-2 is installed in an enclosure utilizing 45 mm cutouts, the front panel stays accessible while the connections are concealed.

Cresnet and PoE

The DIN-DALI-2 communicates with a DIN-AP3 Automation Processor, or other Crestron 3-Series control systems, via the Cresnet control network or Power-over-Ethernet (PoE). A pair of Cresnet ports on the DIN-DALI-2 allows for easy daisy-chaining of several DIN Rail Series automation control modules. A standard Ethernet jack accommodates data and power to be delivered to the unit over one CAT5 cable.

DIN-DALI-2 DIN Rail 2-Channel DALI® Interface

SPECIFICATIONS

Connectors

NET: (2) 4-pin 3.5mm detachable terminal blocks, paralleled;
Cresnet® slave port
OVERRIDE: (2) 2-pin 3.5mm detachable terminal blocks, paralleled;
Sensing input for external low-voltage contact closure;
Activates override mode when a closure is present, forces each ballast into its defined "System Failure Level";
Minimum Closure Rating: 10mA (per module) at 24 Volts
LAN PoE: (1) 8-wire RJ45 with 2 LED indicators;
10BaseT/100BaseTX Ethernet port;
802.3af Power over Ethernet compliant;
Green LED indicates link status;
Yellow LED indicates Ethernet activity
DALI® 1, 2: (2) 2-pin 5mm terminal blocks;
Each set of (+) and (-) is paralleled with the adjacent like ports on the same channel;
Each channel controls a single DALI loop (up to 64 ballasts);
3kVAC isolation between Cresnet/Ethernet ports;
Wire Gauge: 28 AWG to 12 AWG
COMPUTER: (1) USB Type B female, USB 1.1 computer console port

Controls & Indicators

TEST: (2) Yellow LEDs and (2) miniature pushbuttons for testing on/off and dim up/down for all attached ballasts in channel
DALI POWER: (1) 2-position switch, sets DALI power between internal (INT) and external (EXT);
When set to "INT" DALI uses power supplied by the DIN-DALI-2;
When set to "EXT" DALI uses power provided by external power supply (not included)
NET ID: (2) 7-Segment green LED digits and (2) miniature pushbuttons for setting Cresnet ID
SETUP: (1) Red LED and (1) recessed miniature pushbutton for enabling setup mode and touch-settable ID
OVR: (1) Red LED and (1) miniature pushbutton for enabling override mode and saving override presets
PWR: (1) Green LED, illuminates when DC power is applied to the NET port
NET: (1) Yellow LED, indicates communication with the control processor
RESET: (1) Recessed miniature pushbutton, resets internal processor

Enclosure

Light gray polycarbonate housing with polycarbonate label overlay, UL94 V-0 rated, 35mm DIN EN 60715 rail mount, DIN 43880 form factor for enclosures with 45mm front panel cutout, occupies 9 DIN module spaces (162mm)

Power Requirements⁽¹⁾

PoE Power Usage: 13 watts (0.270 Amps @ 48 Volts DC), regardless of DALI POWER setting; capable of powering up to 128 DALI ballast controllers

Cresnet Power Usage: 9 watts (0.375 Amps @ 24 Volts DC), DALI POWER switch set to "INT"; 2 Watts (0.08 Amps @ 24 Volts DC), DALI POWER switch set to "EXT"; capable of powering up to 128 DALI ballast controllers

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 44 BTU/hr

Dimensions

Height: 3.71 in (95 mm)
Width: 6.26 in (159 mm)
Depth: 2.35 in (60 mm)

Weight

9.58 oz (272 g)

Standards & Certifications

UL Listed, CE, CEC Title 24 2013 Compliant

MODELS

Available Models

DIN-DALI-2: DIN Rail 2-Channel Dali® Interface

Notes:

1. The DIN-DALI-2 may be powered by PoE or Cresnet network power. Unit will default to Cresnet if both are present.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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3-Series Control System®

- > Enterprise-class control system
- > 3-Series® Control Engine — substantially faster and more powerful than other control systems
- > Exclusive modular programming architecture
- > Onboard 512MB RAM & 4GB Flash memory
- > Expandable storage up to 1TB
- > Rear panel memory card slot
- > High-speed USB 2.0 host port
- > Industry-standard Ethernet and Cresnet® wired communications
- > XPanel with Smart Graphics™ computer and web based control
- > iPhone®, iPad®, and Android™ control app support
- > Crestron Fusion® Cloud Enterprise Management Service support
- > SNMP remote management support
- > One RS-232/422/485 COM port with hardware and software handshaking
- > Two RS-232 COM ports with software handshaking only
- > Eight IR/serial, eight relay, and eight Versiport I/O ports
- > Programmable event scheduling with astronomical time clock
- > Native BACnet™/IP support⁽¹⁾
- > Installer setup via Crestron Toolbox™ software or web browser
- > C#, symbol based, and drag-and-drop programming environments
- > Full Unicode (multi-language) support
- > Increased network throughput and security
- > Secure access through full user/group management or Active Directory integration
- > Hardware level security using 802.1X authentication
- > JITC certified model available for use in secure network environments
- > TLS, SSL, SSH, and SFTP network security protocols
- > FIPS 140-2 compliant encryption
- > IIS v.6.0 Web Server
- > IPv6 ready
- > Front panel USB computer console port
- > 1-space rack-mountable



3-Series® Control Systems

Today's commercial buildings and custom homes comprise more technology than ever before, and all these systems need to be networked, managed, and controlled in fundamentally new ways. The IP based 3-Series platform is engineered from the ground up to deliver a network-grade server appliance capable of faithfully handling everything from boardroom AV and home theater control to total building management.

3-Series embodies a distinctively robust, dynamic, and secure platform to elevate your system designs to higher levels of performance and reliability. Compared to other control systems, Crestron 3-Series provides a pronounced increase in processing power and speed with more memory, rock solid networking and IP control, and a unique modular programming architecture.

Modular Programming Architecture

Designed for enhanced scalability, the CP3 affords high-speed, real-time multi-tasking to seamlessly run multiple programs simultaneously. This exclusive modular programming architecture lets programmers independently develop and run device-specific programs for AV, lighting, shades, HVAC, security, etc., allowing for the optimization of each program, and allowing changes to be made to one program without affecting the whole. Even as your system grows, processing resources can easily be shifted from one 3-Series processor to another without rewriting any code. The end benefit is dramatically simplified upgradability with minimal downtime, whether implementing changes on site or remotely via the network.

Robust Ethernet & IP Control

IP technology is the heart of 3-Series, so it should be no surprise that its networking abilities are second to none. High-speed Ethernet connectivity enables integration with IP-controllable devices and allows the CP3 to be part of a larger managed control network. Whether residing on a sensitive corporate LAN, a home network, or accessing the Internet through a cable modem, the CP3 provides secure, reliable interconnectivity with IP-enabled touch screens, computers, mobile devices, video displays, media servers, security systems, lighting, HVAC, and other equipment — whether on premises or across the globe.

The Crestron® CP3 is an enterprise-class control system for residential, commercial, and government applications. Featuring the 3-Series® control engine, the CP3 forms the core of any modern networked home or commercial building, managing and integrating all the disparate technologies throughout your facility to make life easier, greener, more productive, and more enjoyable.

CP3 3-Series Control System®



CP3 – Rear View

Control Apps & XPanel

Years ago, Crestron pioneered the world's first IP-based control system unleashing vast new possibilities for controlling, monitoring, and managing integrated systems over a LAN, WAN, and the Internet. Today, Crestron offers more ways than ever to control your world the way you want. Using a computer, smartphone, or tablet device, Crestron lets you control anything in your home or workplace from anywhere in the world.

Native to every 3-Series control system, Crestron **XPanel** technology transforms any laptop or desktop computer into a virtual Crestron touch screen. Crestron **control apps** deliver the Crestron touch screen experience to iPhone®, iPad®, and Android™ devices, letting you safely monitor and control your entire residence or commercial facility using the one device that goes with you everywhere.

Crestron Fusion® Cloud

Crestron Fusion Cloud provides an integrated platform for creating truly smart buildings that save energy, enhance worker productivity, and prolong the life-span of valuable equipment. As part of a complete managed network in a corporate enterprise, college campus, convention center, or any other facility, the CP3 works integrally with Crestron Fusion Cloud to enable remote scheduling, monitoring, and control of rooms and technology from a central help desk. It also enables organizations to reduce energy consumption by tracking real-time usage and automating control of lighting, shades, and HVAC.



SNMP Support

Built-in SNMP support enables integration with third-party IT management software, allowing network administrators to manage and control Crestron systems on the network in an IT-friendly format.

Cresnet®

Cresnet provides a dependable network wiring solution for Crestron keypads, lighting controls, shade motors, thermostats, occupancy sensors, and other devices that don't require the higher speed of Ethernet. The Cresnet bus offers easy wiring and configuration, carrying bidirectional communication and 24VDC power to each device over a simple 4-conductor cable. To assist with troubleshooting, the CP3 includes our patent-pending Network Analyzer which continuously monitors the integrity of the Cresnet network for wiring faults, marginal performance, and other errors.

Onboard Control Ports

In addition to Ethernet, the CP3 includes three bidirectional COM ports and eight IR ports to interface directly with all of your centralized AV sources, video displays, and other devices. Eight programmable relay ports are included for controlling projection screens, lifts, power controllers, and other contact-closure actuated equipment. Eight "Versiport" I/O ports

enable the integration of power sensors, motion detectors, door switches, alarms, or anything else that provides a dry contact closure, low-voltage logic, or 0-10 Volt DC signal.

BACnet™/IP

Native support for the **BACnet/IP** communication protocol provides a direct interface to third-party building management systems over Ethernet, simplifying integration with HVAC, security, fire & life safety, voice & data, lighting, shades, and other systems. Using BACnet/IP, each system runs independently with the ability to communicate together on one platform for a truly smart building.^[1]



Government Version

Crestron is committed to developing solutions for critical secure network environments. A government version of the CP3, model CP3-GV, is available preconfigured for deployment on a multi-level secured network. It has been specially developed and tested with specific government firmware. The CP3-GV has been assessed by JITC using IA requirements from the Department of Defense, and the results have been documented in a DIACAP scorecard. For additional information, see Crestron True Blue [Online Help Answer ID 5361](#).

SPECIFICATIONS

Control Engine

Crestron 3-Series; real-time, preemptive multi-threaded/multitasking kernel; Transaction-Safe Extended FAT file system; supports up to 10 simultaneously running programs

Memory

SDRAM: 512 MB

Flash: 4 GB

Memory Card: Supports SD and SDHC cards up to 32 GB

External Storage: Supports USB mass storage devices up to 1 TB

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, BACnet/IP^[1], IPv4 or IPv6, Active Directory authentication, IIS v.6.0 Web Server, SMTP e-mail client

Cresnet: Cresnet master mode

USB: Supports USB mass storage class devices via rear panel USB 2.0 host ports, supports computer console via front panel USB 2.0 device port

CP3 3-Series Control System®

RS-232/422/485: For 2-way device control and monitoring, all ports support RS-232 up to 115.2k baud with software handshaking, one port also supports RS-422 or RS-485 and hardware handshaking

IR/Serial: Supports 1-way device control via infrared up to 1.2 MHz or serial TTL/RS-232 (0-5 Volts) up to 115.2k baud

Connectors & Card Slots

RELAY OUTPUT 1 – 8: (2) 8-pin 3.5 mm detachable terminal blocks; Comprises (8) normally open, isolated relays; Rated 1 Amp, 30 Volts AC/DC; MOV arc suppression across contacts

I/O 1 – 8: (1) 9-pin 3.5 mm detachable terminal block; Comprises (8) “Versiport” digital input/output or analog input ports (referenced to GND);

Digital Input: Rated for 0-24 Volts DC, input impedance 20k Ohms, logic threshold >3.125V low/0 and <1.875V high/1;

Digital Output: 250 mA sink from maximum 24 Volts DC, catch diodes for use with “real world” loads;

Analog Input: Rated for 0-10 Volts DC, protected to 24 Volts DC maximum, input impedance 21k Ohms with pull-up resistor disabled;

Programmable 5 Volts, 2k Ohms pull-up resistor per pin

IR - SERIAL OUTPUT 1 – 8: (2) 8-pin 3.5 mm detachable terminal blocks; Comprises (8) IR/Serial output ports;

IR output up to 1.2 MHz;

1-way serial TTL/RS-232 (0-5 Volts) up to 115.2k baud

COM 1: (1) 5-pin 3.5 mm detachable terminal block;

Bidirectional RS-232/422/485 port;

Up to 115.2k baud; hardware and software handshaking support

COM 2 – 3: (2) 3-pin 3.5 mm detachable terminal blocks;

Bidirectional RS-232 ports;

Up to 115.2k baud; software handshaking support

MEMORY: (1) SD memory card slot;

Accepts one SD or SDHC card up to 32 GB for memory expansion

USB: (1) USB Type A female;

USB 2.0 port for storage devices

LAN: (1) 8-pin RJ45 jack;

10Base-T/100Base-TX Ethernet port

NET: (1) 4-pin 3.5 mm detachable terminal block;

Cresnet master port;

Outputs power to Cresnet devices if a power pack is connected to the 24VDC power input jack;

Receives Cresnet network power if no power pack is connected to the 24VDC power input jack;

See “Power” section for additional specifications

24VDC 2.0A: (1) 2.1 x 5.5 mm DC power connector;

24 Volt DC power input, PW-2420RU power pack included;

Passes through to NET port to power Cresnet devices;

See “Power” section for additional specifications

G: (1) 6-32 screw;

Chassis ground lug

COMPUTER (front): (1) USB Type B female;

USB 2.0 computer console port (6 ft cable included);

For setup only

Controls & Indicators

PWR: (1) Green LED, indicates operating power supplied from power pack or Cresnet network

NET: (1) Amber LED, indicates communication with the Cresnet system

MSG: (1) Red LED, indicates control system has generated an error message

HW-R: (1) Recessed pushbutton for hardware reset

SW-R: (1) Recessed pushbutton for software reset

LAN (rear): (2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity

Power

Power Pack: 2.0 Amps @ 24 Volts DC;

100-240 Volts AC, 50/60 Hz power pack, model PW-2420RU included

Available Cresnet Power: 24 Watts (1 Amp @ 24 Volts DC) when using power pack

Cresnet Power Usage: 15 Watts (0.625 Amp @ 24 Volts DC) when using Cresnet network power

Environmental

Temperature: 41° to 113° F (5° to 45° C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 50 BTU/hr

Enclosure

Chassis: Metal, black finish

Faceplate: Extruded metal, black finish, polycarbonate label overlay

Mounting: Freestanding or 1 RU 19-inch rack-mountable (adhesive feet and rack ears included)

Dimensions

Height: 1.70 in (44 mm) without feet

Width: 17.28 in (439 mm), 19.00 in (483 mm) with rack ears

Depth: 6.56 in (167 mm)

Weight

3.12 lb (1.42 kg)

CP3 3-Series Control System®

MODELS & ACCESSORIES

Available Models

CP3: 3-Series Control System®

CP3-GV: 3-Series Control System® - Government Version

Included Accessories

PW-2420RU: Power Pack, Desktop, 24VDC, 2A (50 Watts), Regulated, US/International (Qty. 1 included)

Available Accessories

C2N-HBLOCK: Multi-type Cresnet Distribution Block

CNTBLOCK: Cresnet Distribution Block

CNSP-XX: Custom Serial Interface Cable

IRP2: IR Emitter Probe w/Terminal Block Connector

Crestron® App: Control App for Apple® iOS® & Android™

XPanel: Crestron Control® for Computers

myCrestron: Dynamic DNS Service for Crestron Systems

Crestron Fusion®: Enterprise Management Platform

3-Series® BACnet™/IP Support: 3-Series Native BACnet/IP Interface License

CSP-LIR-USB: IR Learner

Notes:

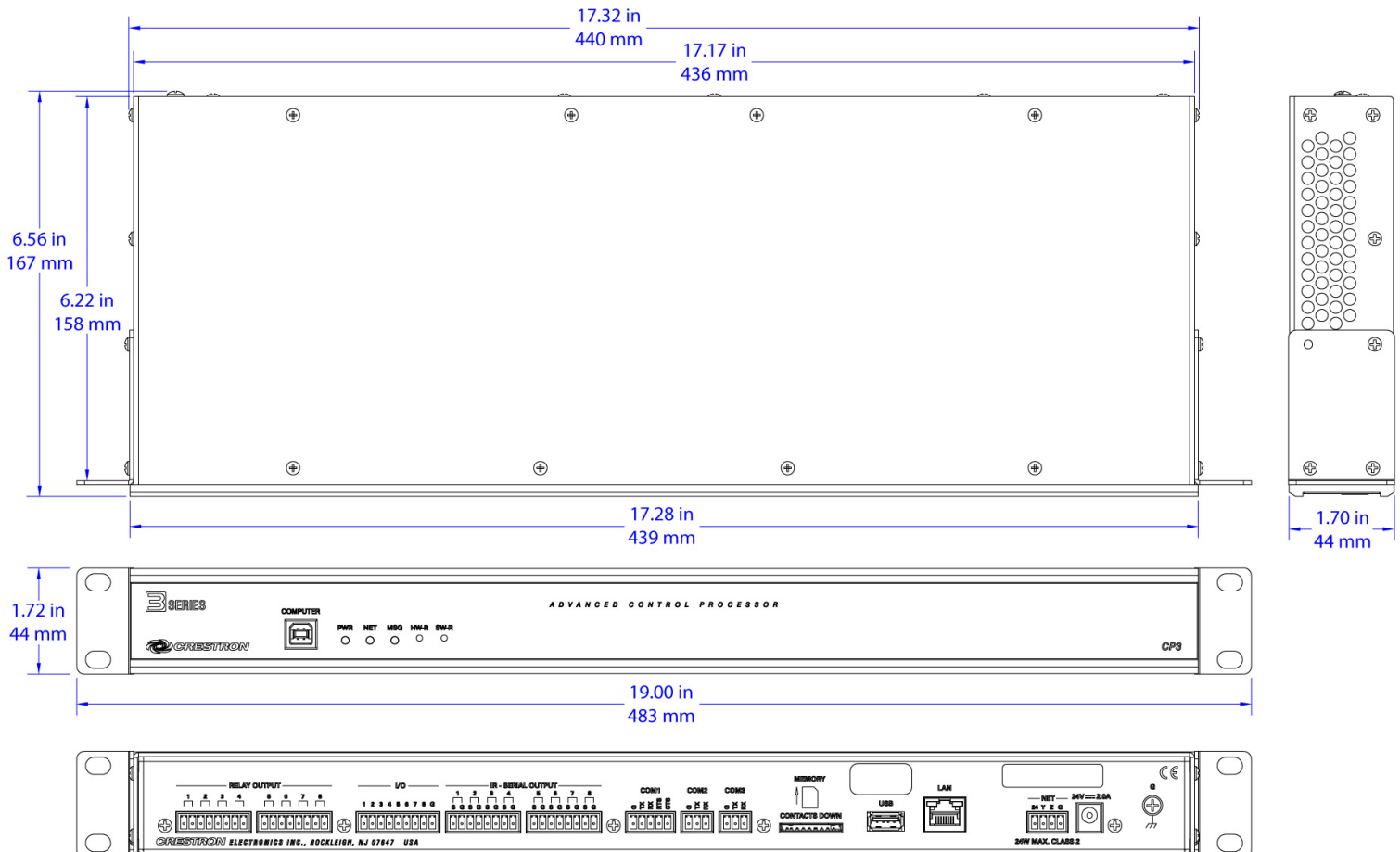
1. License required. The CP3 supports a maximum of 1000 BACnet objects when dedicated for BACnet use only. Actual capabilities are contingent upon the overall program size and complexity.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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iPad

[Overview](#)[iOS](#)[Tech Specs](#)[Models and Pricing](#)

Finish



Silver



Gold



Space Gray

Models



Wi-Fi



Wi-Fi + Cellular

Capacity¹

Wi-Fi

32GB

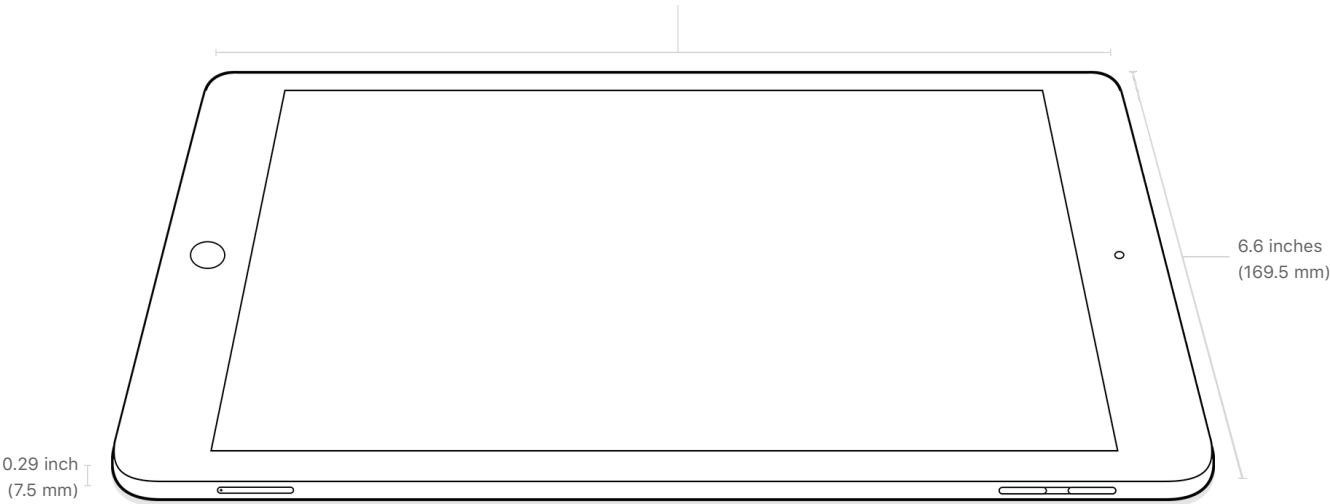
128GB

Wi-Fi + Cellular

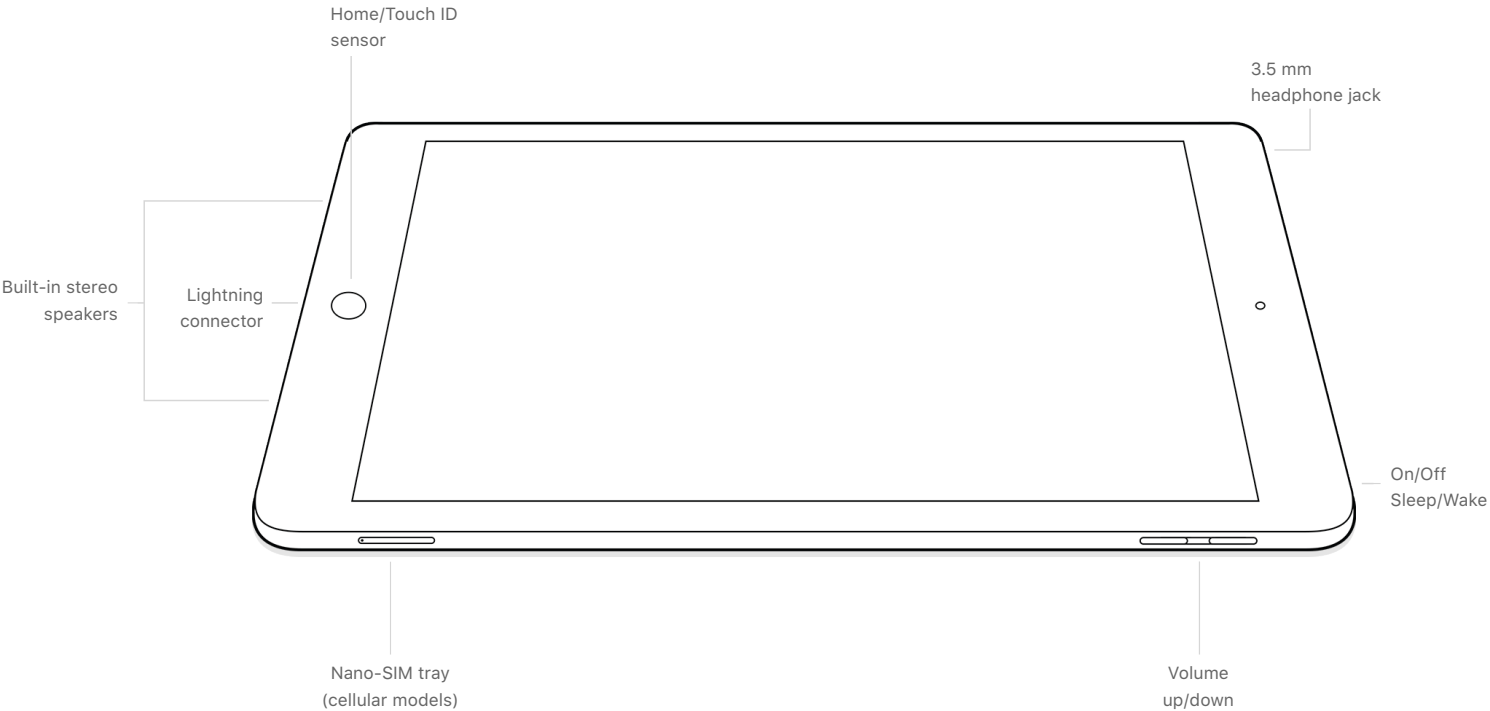
32GB

128GB

Size and Weight²**Height:** 9.4 inches (240 mm)**Width:** 6.6 inches (169.5 mm)**Depth:** 0.29 inch (7.5 mm)**Weight:** 1.03 pounds (469 g)**Height:** 9.4 inches (240 mm)**Width:** 6.6 inches (169.5 mm)**Depth:** 0.29 inch (7.5 mm)**Weight:** 1.05 pounds (478 g)9.4 inches
(240 mm)



Buttons and Connectors



Connector Lightning

In the Box

iPad
Lightning to USB Cable
USB Power Adapter

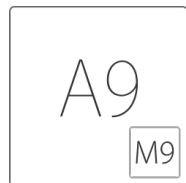


Display

Retina display

9.7-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
2048-by-1536-pixel resolution at 264 ppi
Fingerprint-resistant oleophobic coating

Chip



A9 chip with 64-bit architecture
Embedded M9 coprocessor

Cameras, Photos, and Video Recording

Camera

8-megapixel camera
Autofocus
Panorama (up to 43 megapixels)
HDR for photos
Exposure control
Burst mode
Tap to focus
Timer mode
 $f/2.4$ aperture
Five-element lens
Hybrid IR filter
Backside illumination
Auto image stabilization
Face detection
Photo geotagging

Video Recording

1080p HD video recording (30 fps)
Slo-mo (120 fps)
Time-lapse video with stabilization
Video image stabilization
Face detection
3x video zoom
Video geotagging

FaceTime HD Camera

1.2-megapixel photos
 $f/2.2$ aperture
720p HD video recording
Backside illumination
HDR for photos and videos
Face detection
Burst mode
Exposure control
Timer mode

Video Calling³

FaceTime video

iPad to any FaceTime-enabled device over Wi-Fi

FaceTime video

iPad to any FaceTime-enabled device over Wi-Fi or cellular

Audio Calling³

FaceTime audio

iPad to any FaceTime-enabled device over Wi-Fi

FaceTime audio

iPad to any FaceTime-enabled device over Wi-Fi or cellular

Carriers



Cellular and Wireless

Wi-Fi model

Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO

Bluetooth 4.2 technology

Wi-Fi + Cellular model

Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO

Bluetooth 4.2 technology

UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz)

CDMA EV-DO Rev. A and Rev. B (800, 1900 MHz)

LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28, 29, 38, 39, 40, 41)⁴

Data only⁵

Wi-Fi calling⁴

Includes Apple SIM

[Learn more about Apple SIM >](#)

SIM Card

Nano-SIM (supports Apple SIM)

Location

Digital compass

Wi-Fi

iBeacon microlocation

Digital compass

Wi-Fi

Assisted GPS and GLONASS

Cellular

iBeacon microlocation

Sensors

Touch ID

Three-axis gyro

Accelerometer

Barometer

Ambient light sensor

Touch ID

Fingerprint identity sensor built into the Home button

Apple Pay

Pay with your iPad using Touch ID within apps and on the web

[Learn more about Apple Pay >](#)

Siri⁶

Use your voice to send messages, set reminders, and more

Use hands-free

Listen and identify songs

[Learn more about Siri >](#)

Power and Battery⁷

Built-in 32.4-watt-hour rechargeable lithium-polymer battery

Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music

Charging via power adapter or USB to

Built-in 32.4-watt-hour rechargeable lithium-polymer battery

Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music

Up to 9 hours of surfing the web using

computer system

cellular data network

Charging via power adapter or USB to
computer system

Operating System



iOS 10

With an all-new design and all-new features, iOS 10 is the world's most advanced mobile OS. It brings your iPad to life in more intelligent and expressive ways than ever.

[See what's new in iOS 10 >](#)

iOS 10 includes:

- AirDrop
- AirPlay
- AirPrint
- Control Center
- Notification Center
- Siri
- Spotlight Search
- Apple Music
- Family Sharing
- iCloud Drive
- Multitasking
- QuickType Keyboard
- Night Shift

Accessibility

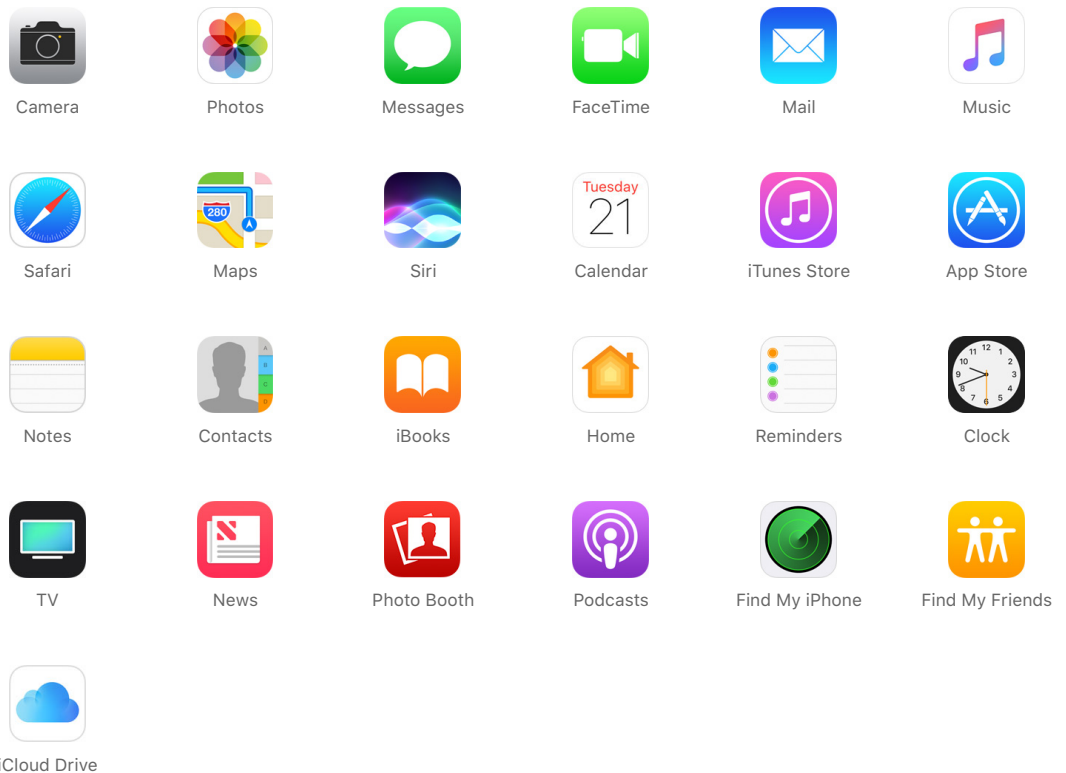
Accessibility features help people with disabilities get the most out of their new iPad. With built-in support for vision, hearing, physical and motor skills, and learning and literacy, you can create and do amazing things. [Learn more >](#)

Features include:

- VoiceOver
- Zoom
- Magnifier
- Siri and Dictation
- Switch Control
- Closed Captions
- AssistiveTouch
- Speak Screen

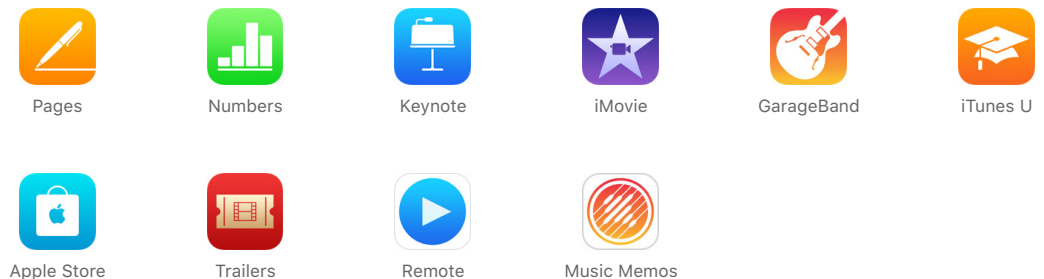
Built-in Apps

Built-in apps are an essential part of your iPad experience and are efficiently designed to use less than 200MB of storage.



Free Apps from Apple⁸

Pages, Numbers, Keynote, iMovie, GarageBand, and iTunes U are preinstalled on iPad models with a capacity of 32GB or higher.



System Requirements

Apple ID (required for some features)

Internet access⁹

Syncing with iTunes on a Mac or PC requires:

- Mac: OS X 10.8.5 or later
- PC: Windows 7 or later
- iTunes 12.3 or later (free download from www.itunes.com/download)

Languages

Language support

English (Australia, Canada, UK, U.S.), Chinese (Simplified, Traditional, Traditional Hong Kong), French (Canada, France), German, Italian, Japanese, Korean, Spanish (Latin America, Mexico, Spain), Arabic, Catalan, Croatian, Czech, Danish, Dutch, Finnish, Greek, Hebrew, Hindi, Hungarian, Indonesian, Malay, Norwegian, Polish, Portuguese (Brazil, Portugal), Romanian, Russian, Slovak, Swedish, Thai, Turkish, Ukrainian, Vietnamese

QuickType keyboard support

English (Australia, Canada, India, Singapore, UK, U.S.), Chinese - Simplified (Handwriting, Pinyin, Stroke), Chinese - Traditional (Cangjie, Handwriting, Pinyin, Stroke, Sucheng, Zhuyin), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian, Japanese (Kana, Romaji), Korean, Spanish (Latin America, Mexico, Spain), Arabic, Bengali, Bulgarian, Catalan, Cherokee, Croatian, Czech, Danish, Dutch, Emoji, Estonian, Filipino, Finnish, Flemish, Greek, Gujarati, Hawaiian, Hebrew, Hindi (Devanagari, Transliteration), Hinglish, Hungarian, Icelandic, Indonesian, Latvian, Lithuanian, Macedonian, Malay, Marathi, Norwegian, Polish, Portuguese (Brazil, Portugal), Punjabi, Romanian, Russian, Serbian (Cyrillic, Latin), Slovak, Slovenian, Swedish, Tamil (Script, Transliteration), Telugu, Thai, Turkish, Ukrainian, Urdu, Vietnamese

QuickType keyboard support with predictive input¹⁰

English (Australia, Canada, India, Singapore, UK, U.S.), Chinese (Simplified, Traditional), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian, Japanese, Korean, Russian, Spanish (Latin America, Mexico, Spain), Portuguese (Brazil, Portugal), Thai, Turkish

Siri languages

English (Australia, Canada, India, Ireland, New Zealand, Singapore, South Africa, UK, U.S.), Spanish (Chile, Mexico, Spain, U.S.), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (Mainland China, Taiwan), Cantonese (Mainland China, Hong Kong), Arabic (Saudi Arabia, United Arab Emirates), Danish (Denmark), Dutch (Belgium, Netherlands), Finnish (Finland), Hebrew (Israel), Malay (Malaysia), Norwegian (Norway), Russian (Russia), Swedish (Sweden), Turkish (Turkey), Thai (Thailand), Portuguese (Brazil)

Dictation languages

English (Australia, Canada, India, Ireland, Malaysia, New Zealand, Philippines, Saudi Arabia, Singapore, South Africa, UAE, UK, U.S.), Spanish (Chile, Colombia, Mexico, Spain, U.S.), French (Belgium, Canada, France, Luxembourg, Switzerland), German (Austria, Germany, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (Mainland China, Taiwan), Cantonese (Hong Kong), Arabic (Kuwait, Saudi Arabia, Qatar, UAE), Catalan, Croatian, Czech, Danish, Dutch (Belgium, Luxembourg, Netherlands), Finnish, Greek, Hebrew, Hungarian, Indonesian, Malaysian, Norwegian, Polish, Portuguese (Brazil, Portugal), Romanian, Russian, Slovakian, Swedish, Turkish, Thai, Ukrainian, Vietnamese

Definition dictionary support

English, Chinese (Simplified, Traditional), Danish, Dutch, French, German, Hindi, Italian, Japanese, Korean, Norwegian, Portuguese (Brazil), Russian, Spanish, Swedish, Thai, Turkish

Bilingual dictionary support

Chinese (Simplified), Dutch, French, German, Italian, Japanese, Korean, Spanish

Spell check

English (Australia, Canada, UK, U.S.), French, German, Italian, Spanish, Danish, Dutch, Finnish, Korean, Norwegian, Polish, Portuguese (Brazil, Portugal), Russian, Swedish, Turkish

Audio Playback

Frequency response: 20Hz to 20,000Hz

Audio formats supported: AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320 Kbps), MP3 VBR, Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3), Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV

User-configurable maximum volume limit

TV and Video

AirPlay Mirroring, photos, audio, and video out to Apple TV (2nd generation or later)

Video mirroring and video out support: Up to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)

Video formats supported: H.264 video up to 4K, 30 frames per second, High Profile level 4.2 with AAC-LC audio up to 160 Kbps, 48kHz, stereo audio or Dolby Audio up to 1008 Kbps, 48kHz, stereo or multichannel audio, in .m4v, .mp4, and .mov file formats; MPEG-4 video up to 2.5 Mbps, 640 by 480 pixels, 30 frames per second, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio or Dolby Audio up to 1008 Kbps, 48kHz, stereo or multichannel audio, in .m4v, .mp4, and .mov file formats; Motion JPEG (M-JPEG) up to 35 Mbps, 1280 by 720 pixels, 30 frames per second, audio in ulaw, PCM stereo audio in .avi file format

Mail Attachment Support**Viewable document types**

.jpg, .tiff, .gif (images); .doc and .docx (Microsoft Word); .htm and .html (web pages); .key (Keynote); .numbers (Numbers); .pages (Pages); .pdf (Preview and Adobe Acrobat); .ppt and .pptx (Microsoft PowerPoint); .txt (text); .rtf (rich text format); .vcf (contact information); .xls and .xlsx (Microsoft Excel); .zip; .ics

Environmental Requirements

Operating ambient temperature: 32° to 95° F (0° to 35° C)

Nonoperating temperature: -4° to 113° F (-20° to 45° C)

Relative humidity: 5% to 95% noncondensing

Operating altitude: tested up to 10,000 feet (3000 m)





iPad Pro Tech Specs

[Learn more >](#)

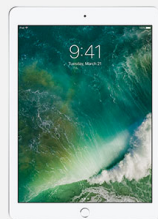


iPad mini 4 Tech Specs

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Find the iPad that's right for you.

[Compare iPad models >](#)



iPad

9.7-inch Retina display
Up to 10-hour battery life
Up to 128GB storage capacity



iPad Pro

9.7- or 12.9-inch Retina display
Up to 10-hour battery life
Up to 256GB storage capacity
Compatible with Apple Pencil and Smart Keyboard
[Learn more about iPad Pro >](#)



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1. Available space is less and varies due to many factors. A standard configuration uses approximately 4GB to 6GB of space (including iOS and built-in apps) depending on the model and settings.

2. Size and weight vary by configuration and manufacturing process.

3. FaceTime calling requires a FaceTime-enabled device for the caller and recipient and a Wi-Fi connection. Availability over a cellular network depends on carrier policies; data charges may apply.

4. Data plan required. LTE and Wi-Fi calling are available in select markets and through select carriers. Speeds are based on theoretical throughput and vary based on site conditions and carrier. For details on LTE support, contact your carrier and see [www.apple.com/ipad/LTE](#).

5. Cellular data plan is sold separately. The model you purchase is configured to work with a particular cellular network technology. Check with your carrier for compatibility and cellular data plan availability.

6. Siri may not be available in all languages or in all areas, and features may vary by area. Internet access required. Cellular data charges may apply.

7. Testing conducted by Apple in February 2017 using preproduction iPad (9.7-inch) units and software. Testing consisted of full battery discharge while performing each of the following tasks: video playback, audio playback, and Internet browsing using Wi-Fi or cellular data network. Video content was a repeated 2-hour 23-minute movie purchased from the iTunes Store. Audio content was a playlist of 358 unique audio tracks purchased from the iTunes Store. Internet over Wi-Fi and cellular data network tests were conducted using dedicated web and mail servers, browsing snapshot versions of 20 popular web pages, and receiving mail once an hour. All settings were default except: Wi-Fi was associated with a network (except for Internet browsing over cellular data network); the Wi-Fi feature Ask to Join Networks and Auto-Brightness were turned off; Brightness was set to 50%; and WPA2 encryption was enabled. Battery life depends on device settings, usage, and many other factors. Battery tests are conducted using specific iPad units; actual results may vary.

8. iMovie, Pages, Numbers, and Keynote are free on the App Store for qualifying devices with initial activation on or after September 1, 2013. GarageBand is free on the App Store for qualifying devices with initial activation on or after September 1, 2014. Downloading apps requires an Apple ID and a device that is compatible with the iOS version required for each app.

9. Wireless broadband recommended; fees may apply.

10. Customized suggestions based on recipient and app are not available for Chinese (Simplified, Traditional), Japanese, Korean, and Thai.

Some features may not be available for all countries or all areas. [Click here to see complete list.](#)

Apple > iPad > iPad 9.7-inch > Technical Specifications

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Site Map

United States

https://www.apple.com/ipad-9.7/specs/

Seite 11 von 11

IDOC-PAD-LCA2-DSWC

iPanel® Wall Dock for iPad Air® 2 & iPad Pro® 9.7

- > Provides a stylish wall dock for an Apple® iPad Air® 2 or iPad Pro® 9.7 device^[1]
- > Transforms the iPad® device into a stationary touch screen
- > Affords seamless control system integration using the Crestron® App^[2]
- > Ideal for use with Crestron Pyng®^[2]
- > Charges the iPad device while docked
- > Retains use of the device's microphone, speaker, camera, and buttons
- > Allows for easy docking and undocking
- > Invertible for left or right-hand docking access
- > Includes locking kit for permanent wall docking
- > Powered via PoE, Cresnet®, or power pack^[3]
- > Supports 2-gang US, UK, or European electrical wall box mounting
- > Can be mounted directly to drywall or paneling over a cutout
- > Installs easily in place of many older Crestron touch screens
- > Protrudes just 1 inch (26 mm) from the wall surface
- > Available in smooth white or black finishes



iPad device not included.

The Crestron® iPanel® Wall Dock (IDOC-PAD-LCA2-DSWC) provides a stylish wall docking solution for an Apple® iPad Air® 2 or iPad Pro® 9.7 device.^[1] The iPanel dock simultaneously charges the iPad® device while allowing it to be used to control a home, business, boardroom, or classroom. The iPad device slides easily into the iPanel dock, instantly transforming it into a stationary wall or lectern mounted touch screen. Its invertible design allows for left or right hand docking access. The iPad device can be removed just as easily from the iPanel dock to resume portable use at any time. Or, the included locking kit can be installed to keep the iPad device permanently in place with a full bezel surrounding the touch screen display on all four sides.

As part of a complete Crestron control solution, an iPad device offers a very powerful and practical touch screen controller for home theater, whole-house automation, and commercial AV and room control applications. Crestron Control® is enabled on the iPad device by downloading and installing the [Crestron App](#)^[2], which provides professional Crestron touch screen functionality through a very stylish and highly-customizable graphical interface. Adding the iPanel dock affords the advantage of wall or lectern mounted touch screen operation and battery charging.

iPanel docks are also ideal for use with [Crestron Pyng](#)®.

Simple, Versatile Mounting

Using the bracket provided, the IDOC-PAD-LCA2-DSWC installs easily over a 2-gang US, UK, or European electrical box. It can also be attached directly to drywall and other surfaces over the front of a 2-3/8" H x 3-3/8" W (60mm H x 86mm W) cutout. When installed, it protrudes just 1 inch (26 mm) from the mounting surface. Its versatile design allows the unit to be installed so that the iPad device can be docked from either the left or right.

Replacing an older Crestron touch screen with the IDOC-PAD-LCA2-DSWC is easy. The bracket provided installs directly over the existing back box, mounting kit, or cut-out for any of the following older models: APAD, CT-1000, LC-1000, TPS-2000L, TPS-4L, and TPS-6L.

Multiple Power Options

The IDOC-PAD-LCA2-DSWC is designed to provide a clean installation with no visible wires. The only wiring required is to power and ground the unit. It can be powered using either PoE or 24 Volts DC. PoE (Power over Ethernet) allows for connection to a PoE network or PoE injector for power, while 24VDC allows for connection to a Cresnet® network or power supply. Crestron offers PoE network switches ([CEN-SW-POE-5](#) or [CEN-SWP0E-16](#)), a PoE injector ([PWE-4803RU](#)), and a 24VDC power pack ([PW-2407RU](#)), any of which may be used to power the iPanel Wall Dock.^[3]

IDOC-PAD-LCA2-DSWC iPad® Wall Dock for iPad Air® 2 & iPad Pro® 9.7

SPECIFICATIONS

Connectors

PoE: (1) 8-pin RJ45, female;
Power over Ethernet PD (Powered Device) port;
Connects to a PoE network switch or injector^[3]

24, G: (2) Captive screw terminals;
24 Volt DC power input Wire Size: 18 AWG (1 mm²) maximum;
Connects to a Cresnet network or power pack^[3]

Ground: (1) Captive screw terminal; chassis ground;
Wire Size: 18 AWG (1 mm²) maximum

Power Requirements

Power over Ethernet: IEEE 802.3at Type 1 (802.3af compatible) Class 0 (12.95 W) PoE Powered Device^[3]

24 VDC: 17 Watts (0.71 Amps) @ 24 Volts DC^[3]

Note: May be powered via PoE or 24 Volts DC; safe to connect both

Environmental

Temperature: 32° to 95° F (0° to 35° C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation (24 VDC): 58 BTU/hr with iPad device docked;
17 BTU/hr without iPad device docked

Construction

Composition: Plastic, smooth black or white finish

Mounting: Surface mount over a 2-gang electrical box, 2-gang UK (BS 4662) electrical box, 2-gang European (DIN 49073) electrical box, or 2-3/8" H x 3-3/8" W (60mm H x 86mm W) cutout; additional wall mount options available separately; locking kit included

Dimensions

Height: 6.87 in (175 mm)

Width: 10.14 in (258 mm);
10.61 in (270 mm) with iPad device docked;
10.72 in (273 mm) with locking kit installed

Depth: 2.38 in (61 mm)

Weight

14.7 oz (417 g)

MODELS & ACCESSORIES

Available Models

IDOC-PAD-LCA2-DSWC-B: iPad® Wall Dock for iPad Air® 2 & iPad Pro® 9.7, Black

IDOC-PAD-LCA2-DSWC-W: iPad® Wall Dock for iPad Air® 2 & iPad Pro® 9.7, White

Available Accessories

CRESTRON-APP-PAD: Crestron® App for iPad®

CRESTRON-PYNG: Crestron Pyng® Setup & Home Control App

PW-2407RU: 18 Watt Cresnet® Power Supply, US/International

PWE-4803RU: PoE Injector

CEN-SW-POE-5: 5-Port PoE Switch

CEN-SWP0E-16: 16-Port Managed PoE Switch

CEN-NVS200: Network Video Streamer

DM-TXRX-100-STR: HD Streaming Transmitter/Receiver

Notes:

1. For iPad Air 2 and iPad Pro 9.7 devices only. For 1st generation iPad Air, use model [IDOC-PAD-LCA-DSWC](#). iPad device not included.
2. Item(s) sold separately.
3. Connection to a PoE network or Cresnet network is for power only. Does not support Ethernet or Cresnet data communications. All power sourcing equipment sold separately.

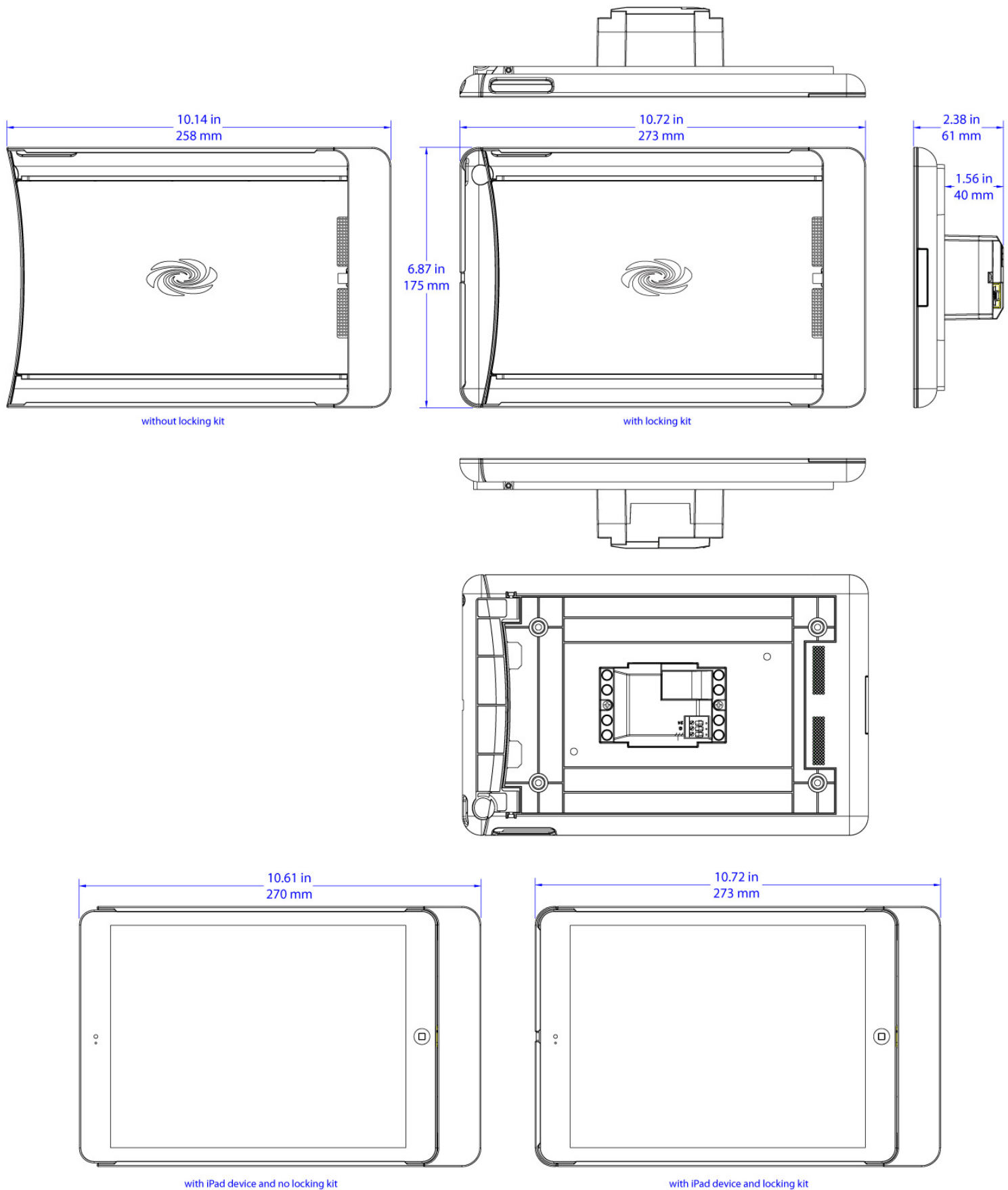
This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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IDOC-PAD-LCA2-DSWC iPad® Wall Dock for iPad Air® 2 & iPad Pro® 9.7



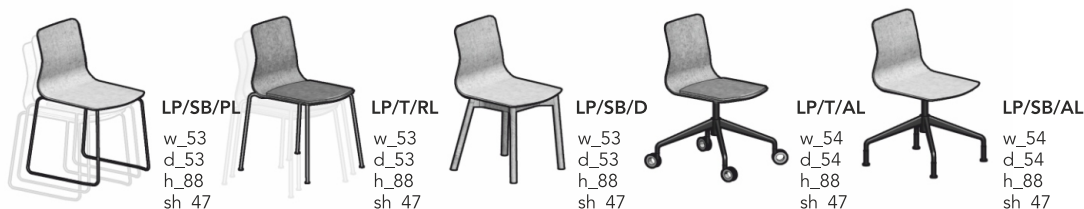


Linar Plus to zmodyfikowana wersja projektu krzeseł Linar z 2007 roku o płynnej linii połączenia siedziska z oparciem. W 2016 roku projektant, Piotr Kuchciński przekształcił kontur oparcia, dodał siedzisko ze sklejki, charakterystyczną tapicerowaną nakładkę i nowe podstawy krzeseł - m.in. drewniane - z buku oraz jesionu. Model ze sklejki bukowej może być wyklejony jednostronnie nowością - najwyższej jakości wełnianym filcem o dużej gramaturze. Filc Walt charakteryzuje się trendowym zbiorem kolorów, od jednobarwnych, mocno nasyconych po melanzowo-pastelowe. Jego dobre parametry sprawiają, że doskonale nadaje się do zastosowania w budynkach użyteczności publicznej.

Krzeseła Linar Plus tapicerowane tradycyjnie dostępne są natomiast w szerokim wachlarzu tkanin NOTI.

Zmodyfikowane warianty nowoczesnych krzeseł poszerzają znacznie możliwości stosowania ich w przestrzeniach mieszkaniowych, miejscach publicznych i jako krzeseła biurowe. Swoje zastosowanie, ze względu na stosunkowo małą ilość zajmowanej powierzchni dzięki wąskiemu siedzisku, znajdują też w restauracjach i kawiarniach.

Idalnie wyprofilowane oparcie oraz szczegółowość wykonania każdego detalu zapewniają wysoki komfort siedzenia. Udogodnieniem w przechowywaniu i transporcie mebli jest możliwość sztaplowania krzeseł na płozach oraz nogach-rurkach.



w	d	h	sh
width	depth	height	seat height
Breite	Tiefe	Höhe	Sitzhöhe
szerokość	głębokość	wysokość	wysokość siedziska

linar plus.



www.noti.pl
biuro@noti.pl
T 61 896-64-80

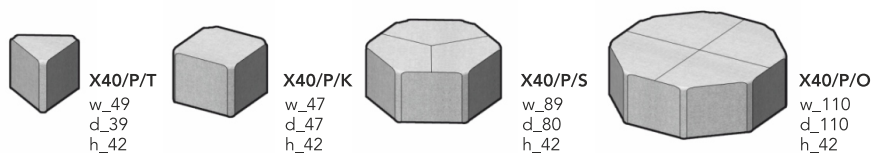
NOTI

x40.

design:
Piotr Kuchciński
2016



x40 to rodzina czterech pufów o wielokątnych podstawach zaprojektowana przez Piotra Kuchcińskiego. Siedziska powstały na planie trójkąta, kwadratu, sześciokąta i ośmiokąta. Powtarzalnym elementem wszystkich brył jest prostokąt o szerokości 40 cm oraz o zaokrąglonych narożnikach. Podstawowym elementem konstrukcji są kształtki styropianowe pokryte pianką poliuretanową. Dzięki temu puffy są bardzo lekkie, co zachęca do ich częstego przestawiania. Dzięki identycznym bokom, puffy pozwalają na zestawianie różnorodnych konfiguracji. Użytkownik może bawić się, wykorzystując tę charakterystyczną powtarzalność cechy i bazując na szerokim wyborze kolorów tkanin NOTI. Rodzina nowoczesnych mebli x40 sprawdzi się w miejscach publicznych i nowoczesnych przestrzeniach mieszkaniowych.



w	d	h	sh
width	depth	height	seat height
Breite	Tiefe	Höhe	Sitzhöhe
szerokość	głębokość	wysokość	wysokość siedziska

x40.

