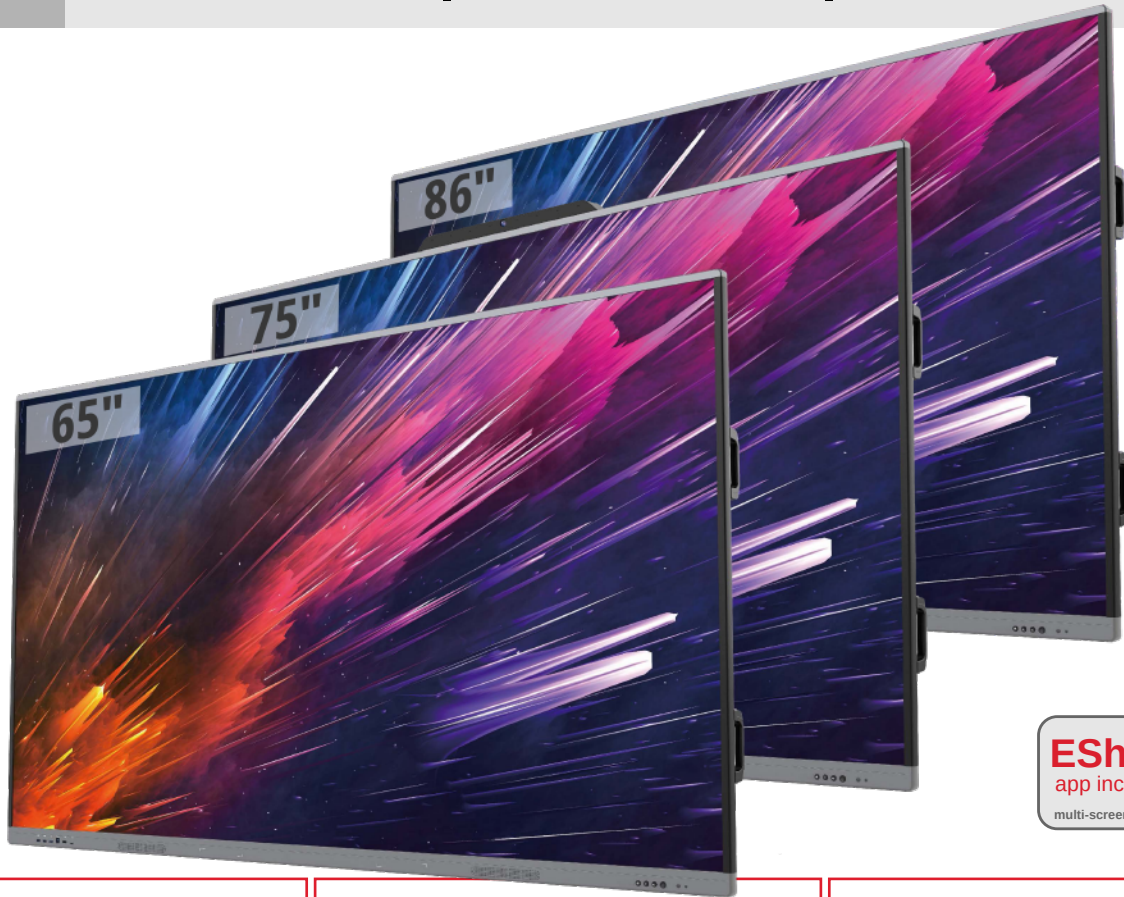
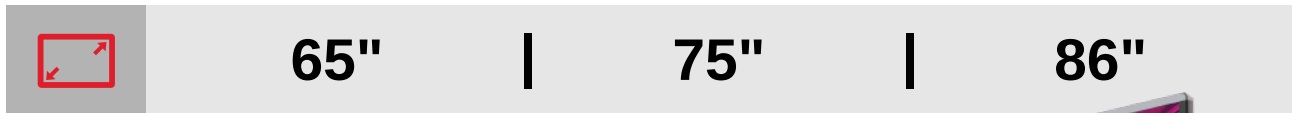




Whiteboard A311D2 Standard Series

True Optical Bonding Interactive Flat Panel Displays (IFPDs)

Infrared touch (IR), mid-range solution (standard model)



Touch Functionality

Infrared touch, used with finger, pen or other tools (up to 40-point touch)



Easy Video Conferences

Microphone, camera, and easy screen sharing is possible



Long-Term Operation

Built for extensive use within offices and classrooms



Simple & Easy Installation

VESA and mounts make for easy installs in any room



Tough, Ruggedized Design

Tempered glass front panel & shatter-proof cover glass



Fully Customizable

Case, connectors, peripherals etc.



High Resolution

Up to 4K resolution (3840x2160) with up to 1.07B colors displayed



Slim & Lightweight Design

Simple, sleek, and light frame designs are easy to mount anywhere



True Optical Bonding

Provides the sharpest most vivid display image in the industry (different from zero-bonding - see page 7)



4K UHD
178° Viewing Angle
Anti-glare
True Optical Bonding



A311D2 Mainboard
Android 11
CPU: A73*4+A53*4
8G RAM + 64G ROM



Wireless Screen Share
Two-way Control
OTA Update
48MP Camera
Wi-Fi 6
OPS & Mobile Stand options

Specifications

Display | Connection | CPU / OS | Touch

Whiteboard A311D2 Standard Series (IR, mid-range solution)

Model	FT65A311D2OB	FT75A311D2OB	FT86A311D2OB	
Display	Size	65 inch	75 inch	86 inch
	Type	a-Si TFT-LCD	a-Si TFT-LCD	a-Si TFT-LCD
	Aspect Ratio	16:9	16:9	16:9
	Backlight	LED	LED	LED
	Resolution	3840×2160	3840×2160	3840×2160
	Refresh Rate	60Hz	60Hz	60Hz
	Brightness	450nits	450nits	450nits
	Contrast Ratio	4000:1	4000:1	4000:1
	Viewing Angle(V/H)	178°/178°	178°/178°	178°/178°
	Colors	1.07B(10 bits)	1.07B(10 bits)	1.07B(10 bits)
	LED Lifetime	≥30,000H	≥30,000H	≥30,000H
	Touch Area(L*W)/mm	1445.6*824.8	1667.8*949.9	1914*1088.6
	Display Area(L*W)/mm	1430.5*805.5	1651.4*929.9	1897.04*1067.96
	Glass Material	AG(anti-glare) tempered glass Reflectivity<1%	AG(anti-glare) tempered glass Reflectivity<1%	AG(anti-glare) tempered glass Reflectivity<1%
	Glass Thickness	3.2mm	3.2mm	3.2mm
Glass Hardness	Mohs 7	Mohs 7	Mohs 7	
Bonding	True Optical bonding	True Optical bonding	True Optical bonding	
Connection	Front	Public USB-A 3.0*3	Public USB-A 3.0*3	Public USB-A 3.0*3
		Touch USB-B 3.0*1(for front HDMI2.0)	Touch USB-B 3.0*1(for front HDMI2.0)	Touch USB-B 3.0*1(for front HDMI2.0)
		HDMI 2.0 in*1	HDMI 2.0 in*1	HDMI 2.0 in*1
		Type-C out*1(DP 1.2+Touch USB 2.0+PD 15W+100Mbps)	Type-C out*1(DP 1.2+Touch USB 2.0+PD 15W+100Mbps)	Type-C out*1(DP 1.2+Touch USB 2.0+PD 15W+100Mbps)
	Rear	USB-C 3.0*1	USB-C 3.0*1	USB-C 3.0*1
		RS232(DB9)*1	RS232(DB9)*1	RS232(DB9)*1
		Touch USB-B 3.0*1(for DP in)	Touch USB-B 3.0*1(for DP in)	Touch USB-B 3.0*1(for DP in)
		DP 1.2A in	DP 1.2A in	DP 1.2A in
		HDMI 2.1 in*1	HDMI 2.1 in*1	HDMI 2.1 in*1
		HDMI 2.0 in*1(ARC)	HDMI 2.0 in*1(ARC)	HDMI 2.0 in*1(ARC)
		USB Type-C*1: ·Device mode: DP 1.2 in+Touch+PD 100W+USB 2.0, optional 100Mbps ·Host mode: USB 2.0	USB Type-C*1: ·Device mode: DP 1.2 in+Touch+PD 100W+USB 2.0, optional 100Mbps ·Host mode: USB 2.0	USB Type-C*1: ·Device mode: DP 1.2 in+Touch+PD 100W+USB 2.0, optional 100Mbps ·Host mode: USB 2.0
	Rear	Android USB-A 2.01	Android USB-A 2.01	Android USB-A 2.01
		Public USB-A 3.0*2	Public USB-A 3.0*2	Public USB-A 3.0*2
		OTG USB-A 2.0*1	OTG USB-A 2.0*1	OTG USB-A 2.0*1
		WiFi antenna*2 (2.4GHz+5GHz, support wifi6)	WiFi antenna*2 (2.4GHz+5GHz, support wifi6)	WiFi antenna*2 (2.4GHz+5GHz, support wifi6)
		Bluetooth 5.0*1	Bluetooth 5.0*1	Bluetooth 5.0*1
		Earphone out*1	Earphone out*1	Earphone out*1
		Coaxial or SPDIF out*1	Coaxial or SPDIF out*1	Coaxial or SPDIF out*1
HDMI 2.1 out*1		HDMI 2.1 out*1	HDMI 2.1 out*1	
RJ45*2(10/100/1000Mbps)		RJ45*2(10/100/1000Mbps)	RJ45*2(10/100/1000Mbps)	
CPU / OS	Version	Android 11	Android 11	Android 11
	CPU	Amlogic A311D2 4x Cortex-A73 at 2.2GHz 4x Cortex-A53 at 2.0GHz	Amlogic A311D2 4x Cortex-A73 at 2.2GHz 4x Cortex-A53 at 2.0GHz	Amlogic A311D2 4x Cortex-A73 at 2.2GHz 4x Cortex-A53 at 2.0GHz
	GPU	Arm Mali-G52 MP8 (8EE)	Arm Mali-G52 MP8 (8EE)	Arm Mali-G52 MP8 (8EE)
	RAM	8G LPDDR4	8G LPDDR4	8G LPDDR4
	ROM	64G	64G	64G
Touch	Performance	Technology:Infrared; Minimum Touch Object: 3mm; Touch Precision:2mm; Writing Precision:±0.5mm; Resolution:32767*32767; Response Time: 3.3ms		
	Points	40 point touch/drawing, 20 point writing		
	Tools	Fingers, pens, or other untransparent objects.		
	Compatibility	Windows XP/7/8/10/11; Linux; Chrome OS; Mac OS; Android		
	Features	Dual color writing, palm rejection.		
	Light Resistance	Work normally under 80,000 lux illumination(Full daylight = 100,000 lux)		

Specifications are subject to change without notice and may vary from provided promotional materials

Specifications

Webcam | OPS | Dimensions & Weight | Other

Whiteboard A311D2 Standard Series (IR, mid-range solution)

Model		FT65A311D2OB	FT75A311D2OB	FT86A311D2OB
Webcam (Included)	Type	External - 48MP (see page 4)	External - 48MP (see page 4)	External - 48MP (see page 4)
OPS (Optional)	CPU	Intel Core i5 or i7 / Customization (see page 6)		
	RAM	4G DDR4 / Customization (see page 6)		
	Storage	256G/512G SSD / Customization (see page 6)		
	Operating System	Windows 10 or 11 / Customization (see page 6)		
	Network	Subject to model (see page 6)		
	Interface	Subject to model (see page 6)		
	Physical Dimensions (L*W*H)/mm	Subject to model (see page 6)		
Dimension & Weight	Physical Dimensions (L*W*T)/mm	1484.5*891.3*88.1 (without wall mount) 1484.5*891.3*120.1 (with wall mount)	1706.7*1016.4*88 (without wall mount) 1706.7*1016.4*120 (with wall mount)	1952.9*1155.1*88 (without wall mount) 1952.9*1155.1*114.2 (with wall mount)
	Bezel Width/mm	Top/Left/right:19.5 Bottom:47	Top/Left/right:19.5 Bottom:47	Top/Left/right:19.5 Bottom:47
	Packed Dimensions (L*W*H)/mm	1690*210*1060	1920*210*1150	2154*230*1354
	Net Weight	40Kg±1Kg	53Kg±1Kg	66Kg±1Kg
	Gross Weight	52Kg±1Kg	67Kg±1Kg	84Kg±1Kg
Speaker		20W*2	20W*2	20W*2
Power (Type-C not included)		AC:100-240V;60/50Hz; 300W(Max);208W(Standard); 107.1W(ECO); ≤0.5W(Standby) °C	AC:100-240V;60/50Hz; 430(Max); 259.7W(Standard); 123.9W(ECO); ≤0.5W(Standby)	AC:100-240V;60/50Hz; 550W(Max); 341.6W(Standard); 166.9W(ECO)≤0.5W(Standby)
Environmental Requirement		Operation temperature:0~40 ; Operation humidity:20%~80%RH		
In The Box		Pen*2 /Remote control*1 / 3M Power cable*1 / 3M HDMI cable*1 / 3M A-B USB cable*1		
Wall Mount		Manual*2(1 for All-in-one touch panel, 1 for wall mount) / Installation guide*1 / Warranty card*1 / Qualified certificate*1 / Packing list*1		
Mobile Floor Stand		Standard included		
Warranty		Optional (see page 5)		
		Touch panel/OPS & accessories: by sales contract. Software upgrade: free for lifetime.		

Webcam Specifications (included)

48MP Webcam



Model	Model	FTMP48 (with microphone)
Display	Sensor	48MP Sensor for 12Mp Tetra Bayer with 1/2 optics inch
	Pipe Size	0.8x0.8um
	Working Voltage	5V
	Working Current	1A
	Frequency	50Hz
	Interface	USB 2.0
	Infrared Filter	/
	Lens Structure	/
	Interface Speed	/
	Video Format	YUV / MJPG
	Supported Resolutions	15fps@mjpg 4208X3120 30fps @mjpg/h264/h265 3840x2160 2560x1440 1920x1080 1280x720 1024x768 640x480 640x360 320x180 10fps@YUY2 1280x720 30fps@YUY2 640x480 320x240
	Focus Mode	Fixed focus
	Focusing Speed	/
	Microphone	8MIC
Connection	MIC plate size	130x6mm
	MIC spacing	40mm
	Signal to Noise Ration (SNR)	64.5db
	Sensitivity	-26db
	Acoustic Overload Point (AOP)	120 db SPL (Sound Pressure Level)
	Pick-up Distance	10m
	Indicator	Yes
	Algorithm	Face Tracking, Sound Source Localization, echo cancellation
	Field of View (FOV)	D:114.9 H:110. V:85.7 ±3°
	Total Track Length (TTL)	7.18mm ± 0.15mm
	Effective Focal Length (EFT)	2.59mm
	F/NO (Infinite)	2.2 ± 5%
	TV-distortion	<1.5%
	Focus Distance	0.4 - 10m
	Effective Depth of Field	0.4 - 10m
	Thread Specifications	/
	Sampling Rate	/
	Sampling Bits	/
Wire	FFC	
Support Function	1. Acoustic Echo Cancellation (AEC) 2. 180° horizontal plane pickup, beamforming 3. Adaptive Environment Noise Reduction 4. Reverberation Removal 5. Sound Source Localization 6. Adaptive Voice Enhancement 7. Automatic Gain Control (AGC)	

Specifications are subject to change without notice and may vary from provided promotional materials



48MP Resolution
110° Field of View



Face Tracking
Sound Source Localization



8-Mic Array
10m pick-up distance
Echo Elimination
Environmental Noise Suppression

Mobile Stand Specifications (optional)

SPCC Steel Mobile Stand



Model	FTMSWH
Material	SPCC steel
Color	Titanium
Capacity	max. 200kg
Wheels	4 wheels with brakes
Rotation Option	No
VESA (W*H)/mm	1000(max)*600
Physical Dimension(L*W*H) /mm	1162*719.7*1592
Packing Dimension(L*W*H) /mm	1182*125*520
Net Weight	15.8kg
Gross Weight	17.3kg
Applicable with	65", 75" & 86" flat panel displays



Specifications are subject to change without notice and may vary from provided promotional materials



SPCC Steel
VESA 1000(max)*600
Titanium Finish



Mobile wheels
With brakes



Hold up to 200kg
for 65", 75" & 86"

OPS Specifications (optional)

Open Pluggable Specification: Windows 10 & 11, Linux

FTOPSTL | FTOPSCL | FTOPSAL



Model	FTOPSTL (Tiger Lake)	FTOPSCL (Coffee Lake)	FTOPSAL (Alder Lake)
Version CPU + Storage)	V1: Core i5 1155G7, 8G+256G V2: Core i5 1155G7, 16G+256G V3: Core i7 11390H, 8G+256G V4: Core i7 11390H, 16G+256G	V1: Core i5-10210U, 8G+256GB V2: Core i5-10210U, 16G+256GB V3: Core i7-10510U, 8+256GB V4: Core i7-10510U, 16G+256GB	V1: Core i5 1235U, 8+256GB V2: Core i5 1235U, 16G+256GB V3: Core i7 1255U, 8G+512GB V4: Core i7 1255U, 16G+512GB
Processor	Intel Core 11th I5/I7 CPU	Intel Core 10th I5/I7 CPU	Intel Core 12th I5/I7 CPU
Chipsets	Tiger Lake	Coffee Lake	Alder Lake
Graphics	Intel® Iris Graphics	Intel® Iris Graphics / Intel® UHD Graphics	Intel® Iris® Xe Graphics
Memory	2*SO DIMM DDR4 (Max 32GB)	2*SO DIMM DDR4 Max 32GB	2*SO DIMM DDR4
Storage	1*M.2 2280 SSD, SATA, optional with NVME 1*2.5"HDD	1*M.2 2280 SSD, SATA, optional with NVME	1*M.2 2280 SSD, SATA, optional with NVME
WLAN	1*M.2 2230 for WIFI/BT	1*M.2 2230 for WIFI/BT	1*M.2 2230 for WIFI/BT
LAN	Intel I219-V Gigabit Ethernet	Intel Gigabit Ethernet	Intel Gigabit Ethernet
Audio	Realtek HD Audio IC	Realtek HD Audio	Realtek HD Audio
Interface	3* USB3.0 , 2* USB2.0 1* Type-C(Only USB) 1* RJ45 10/100/1000M 1* HDMI 1.4 out, Max.4K/30Hz 1* DP out, Max4K@60Hz 1* 3.5mm Line out, 1* 3.5mm Mic in 2* WIFI/BT ANT 1* Power button 1* Power LED	1* USB2.0 , 3* USB3.0 1* Type-C(Only USB) 1* RJ45 10/100/1000M 1* HDMI 1.4 out, Max.4K@30Hz 1* 3.5mm Line out, 1* 3.5mm Mic in 2* WIFI/BT ANT 1* Power button 1* Power LED 1* HDD LED	2* USB3.1 , 2* USB3.0 1*Type-c (Only USB) 1* RJ45 10/100/1000M 1* HDMI 2.0 out 1* 3.5mm Line out, 1* 3.5mm Mic in 2* WIFI/BT ANT 1* Power button 1* Power LED 1* HDD LED
OPS 80PIN	1* HDMI 2.0 out, 4K/60Hz 2* USB2.0 1* USB3.0 1*TTL 1* DC IN	1* HDMI 2.0 out, 4K/60Hz, 2* USB2.0 1* USB3.0 1*TTL 1*DC input	1* HDMI 2.0 out, 4K/60Hz, 1* DP 1.4 out 2* USB2.0 1* USB3.0 1*TTL 1*DC input
Power	12~19V DC IN	12~19V DC IN	12~19V DC IN
Features	NO	NO	Vpro, TPM, optional
Watchdog	Support	Support	Support
Case	Metal	Metal	Metal
Dimension	195 (L)*180 (W) *30(H)mm	119 (L)*180 (W) *30(H)mm	119 (L)*180 (W) *30(H)mm
Environment	Operating 0°C~40°C Storage -20°C~70°C 10%~95% (non-condensing)	Operating 0°C~40°C Storage -20°C~70°C 10%~95% (non-condensing)	Operating 0°C~40°C Storage -20°C~70°C 10%~95% (non-condensing)
OS	Win10 / Win11	Win10 / Win11	Win10 / Win11 / Linux

Specifications are subject to change without notice and may vary from provided promotional materials



Windows 10 / 11
Linux

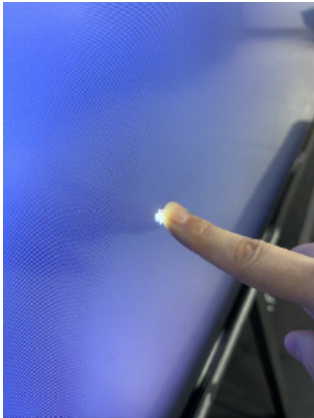


11th gen Tiger Lake
10th gen Coffee Lake
12th gen Alder Lake
8/16G RAM
256/512G SSD



Wi-Fi + Bluetooth
12-19V DC-IN
Type-C, HDMI, USB 2,
USB 3, RJ45, DP

faytech's True Optical Bonding Advantages



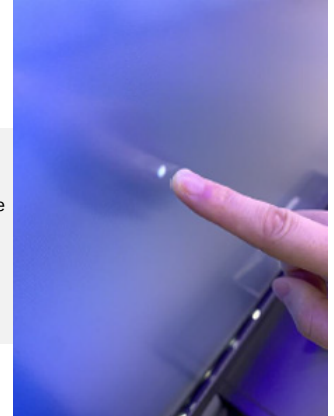
faytech's True Optical Bonding



- A liquid adhesive, **CLEAR-BOND**, is applied between the layers of the display.
- **CLEAR-BOND** fills the air gap completely, resulting in a uniform and optically clear bond.
- Thermal curing is then used to solidify the bond.
- This true optical bonding offers several advantages, including **improved contrast, reduced reflection, increased ruggedness, and enhanced durability**. It also **eliminates the possibility of dust or moisture accumulation** between the cover glass and LCD panel.

Zero Bonding

- The LCD panel is directly attached to the protective glass cover using double-sided adhesive strips.
- Unlike true optical bonding, zero bonding **does not fill the entire air gap uniformly**.
- Zero bonding can still provide some level of reflection reduction and durability enhancement compared to displays without any bonding, but it **does not offer the same level of optical performance and ruggedness as true optical bonding**.



Feature	faytech's CLEAR-BOND True Optical Bonding	Zero Bonding	Air Gap (no bonding)
Reflections	8-10%	12-15%	15-18%
Brightness	-8%	-15%	-18%
Glass Transparency	90-92%	85-88%	82-85%
Hardness	7H	7H	7H
Impact Energy Without Damage	IK08-10	IK07-08	IK07-08
Shatterproof	Yes	No	No
Dust or Humidity	No	Yes	Yes
Viewing Angle	Larger	Middle	Smaller
Contrast and Color Value	High	Normal	Low
Touch Performance	Fast touch response and high accuracy	Potential slight delay in touch response and relatively lower accuracy	Likely delay in touch response and higher chance of misdirected accuracy
Screen Surface Levelling (flatness)	Screen surface levelling is even with no visual effect issues	Screen levelling may fluctuate to some degree with potential irregularities	Average screen levelling with a border that may affects the visual quality

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