

OPTICAL BONDING vs NO BONDING

CUSTOM OPTICAL BONDING SERIES · IP65

21.5" IP65 Optical Bonding Panel PC

Optical bonding · IP65 sealed · metal housing

MODEL
STD-OB215IP65-02

Panel 32" TFT LCD
1920×1080 · 16:9 · 1000 cd/m²

21.5"	1920×1080	300 nits	10-point	−20~70 ℃	IP65
SCREEN SIZE	RESOLUTION	BRIGHTNESS	PCAP TOUCH	OPERATING	IP RATING

- Anti-Magnetic Interference
- Waterproof & Dustproof
- Shock-Proof
- Anti-Corrosion
- Anti-Glare
- Resistant to High & Low Temperature

FIG. 1 PRODUCT VIEWS

Optical bonding · IP65 sealed · aluminium profile housing



FRONT



REAR · connectors



INTERFACE

01 DISPLAY

Panel	TFT LCD, Anti-glare
Resolution	1920 × 1080 (16:9)
Brightness	300 cd/m²
Contrast	3000 : 1
View angle	89 / 89 / 89 / 89
Colour	16.7 M
Response	18 ms

02 TOUCH

Type	PCAP / resistive / non-touch
Points	10
Surface	AG coating, ≥7H
Glass	Tempered 3 mm
Bonding	Optical bonding

03 SYSTEM & INTERFACE

CPU	Intel J1900 / U1800
Memory	DDR3L, max 8 GB

04 OPTICAL BONDING

Process	Optical bonding
Benefit	No fogging, higher contrast
Sunlight	Readable in direct sunlight
Option	AR / AF / AG coating

05 MECHANICAL

Outline	530.8 × 328.6 × 70.8 mm
Housing	Metal housing (customisable)
VESA	100 × 100 mm
Net weight	Estimated 6.6 kg
Gross weight	Estimated 9 kg
Carton	Estimated 576 × 390 × 70 mm

06 RELIABILITY

Operating	−20 ~ 70 ℃
Storage	−30 ~ 80 ℃
Humidity	10% to 80%
Seal	IP65 with silicon seal

NOTES

1. Dimensions in mm, tolerance ±1 mm.
2. Optical bonding is standard; AR / AF coating optional.
3. Shell structure can be customised per project.

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Dimensions & Installation

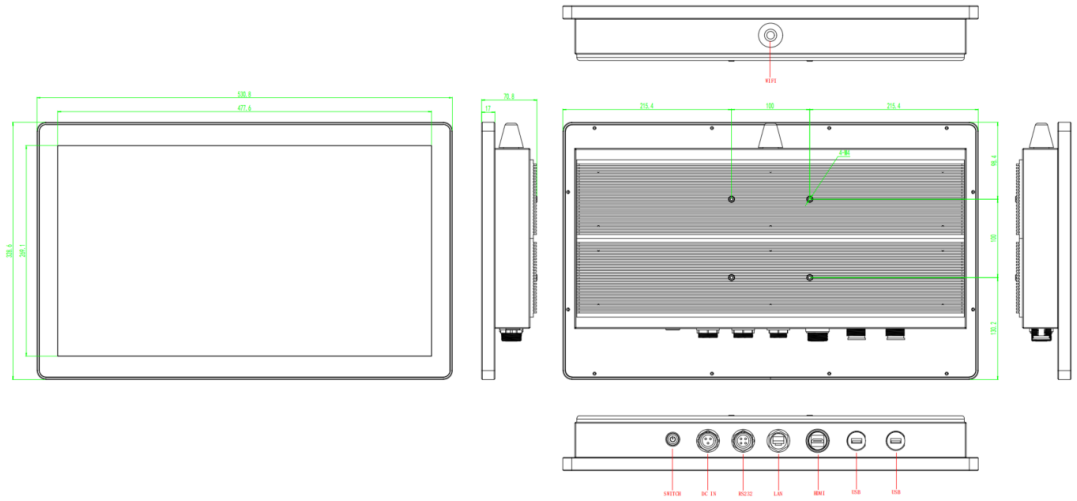
Overall W×H×D, active area and VESA pitch follow the certified drawing. Unit: mm.



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FIG. 2 OUTLINE DIMENSIONS

NTS · UNIT: mm · ±1



DIMENSION TABLE

Ref.	ITEM	VALUE	NOTE
W	Overall width	530.8 mm	±1
H	Overall height	328.6 mm	±1
D	Depth	70.8 mm	incl. rear VESA boss
VA	Active area	477.6 × 269.1 mm	16:9
VESA	VESA pitch	100 × 100 mm	4 × M6

FIG. 4 MOUNTING

VESA 300 × 200 wall mount	standard
Desktop stand	optional
Ceiling / hanging bracket	optional
Flush recess (custom frame)	on request

IP65 sealed enclosure; cable glands on rear bottom; VESA pattern fits standard brackets.

FIG. 3 INTERFACE LAYOUT



DC-In	×1	Power input, with adapter
HDMI	×1	HDMI signal input
VGA	×1	Analog signal input
USB	×4	USB 2.0 ×2 + 3.0 ×2
Audio	×1	Line-out / Mic-in
RJ45	×1	Gigabit Ethernet
COM	×1	RS232

Waterproof connectors configured per project; VGA / Audio via adapter cable.

STARK TOUCH DEVICE

PROJECT
Custom Optical Bonding Series

DWG NO.
STD-DS-OB215-02

REV.
A

MODEL
STD-OB215IP65-02

SCALE
NTS

DATE
2026.11

SHEET
2/3

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OPTICAL BONDING VS NO BONDING

SELECTION & PACKAGING

Model naming, box contents, certification and series overview.

01 MODEL NAMING

STD	OB	215IP65	02
STARK	Optical Bonding	215 inch, IP65	Version

· TM = touch monitor · PC = panel PC (X86 / A) · AIO = all-in-one display · EM = embedded monitor

· PC models add a trailing -X (Intel) or -A (Android) to indicate the platform.

· Example: STD-OB32CTM-IP65 = STARK optical bonding, 32 inch capacitive touch monitor, IP65.

02 BOX CONTENTS

- **Monitor ×1**
  with optical bonding and IP65 seal
- **HDMI cable ×1**
  length 1.5 m
- **Waterproof connector caps**
  pre-installed
- **Power adapter + cord ×1**
  DC 24 V for TM models
- **USB touch cable ×1**
  touch models only
- **Quick start guide ×1**
  EN / CN

03 CERTIFICATION

Certification **CE / FCC**

The product complies with CE and FCC requirements. Certificates are issued per model and available on request.

04 SERIES OVERVIEW

Model	Size	Resolution	Brightness	Form
STD-OB156IP65-02	15.6"	1920×1080	450 nits	Panel PC X86
STD-OB156EBPC	15.6"	1920×1080	800 nits	Panel PC Android
STD-OB215IP65-02	21.5"	1920×1080	300 nits	Panel PC X86
STD-OB215EBPC	21.5"	1920×1080	250 nits	Panel PC Android
STD-OB32CTM-IP65	32"	1920×1080	1000 nits	Touch monitor
STD-OB55IP65TM	55"	1920×1080	1500 nits	Touch monitor
STD-OB32IP65TM	32"	1920×1080	1000 nits	All-in-one display
STD-OB43IP65TM	43"	1920×1080	1000 nits	All-in-one display
STD-OB32TM-02	32"	1920×1080	300 nits	Embedded monitor
STD-OB43TM-02	43"	1920×1080	350 nits	Embedded monitor

CUSTOMISATION Size, brightness, interface and housing can be tailored to your project.

05 REVISION HISTORY

Rev	Date	Description
Rev A	2026.11	Initial release

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