

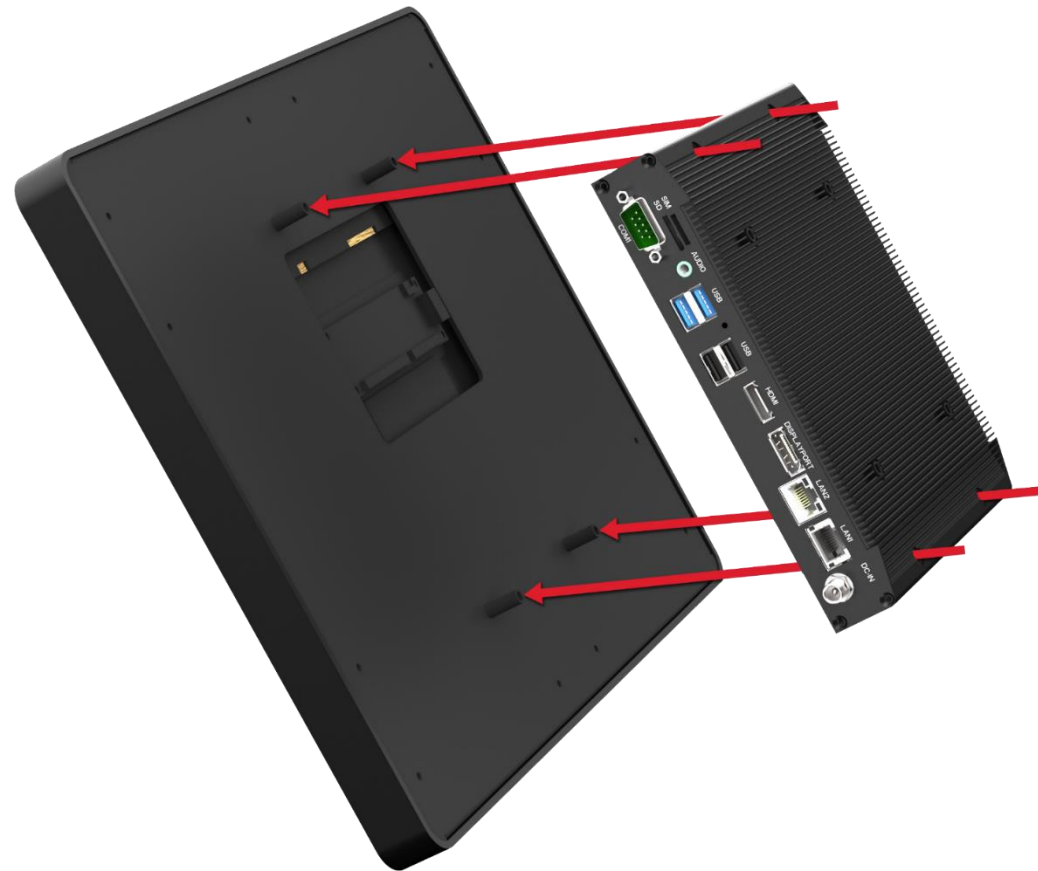
faytech Industrial Touch Solutions

faytech



faytech's Front & Back Kits | Modular

These individual **front kit** & **back kits** are produced separately, allowing for complete mix & match possibilities for our wide range of **standard solutions**.



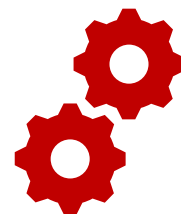
Complete Flexibility

Final kit assembly and customizations can be done in any of our locations worldwide.



Rapid Project Completion

Due to wider available SKUs of the various front and back kits, quicker delivery possibilities.



Extensive Customization Options

Configure your own device – from shape, glass, color, IK/IP grade to CPU, RAM, SSD or adding cameras, IOs, relays, sensors, etc. - you name it we realize it.



Dual Quality Verification

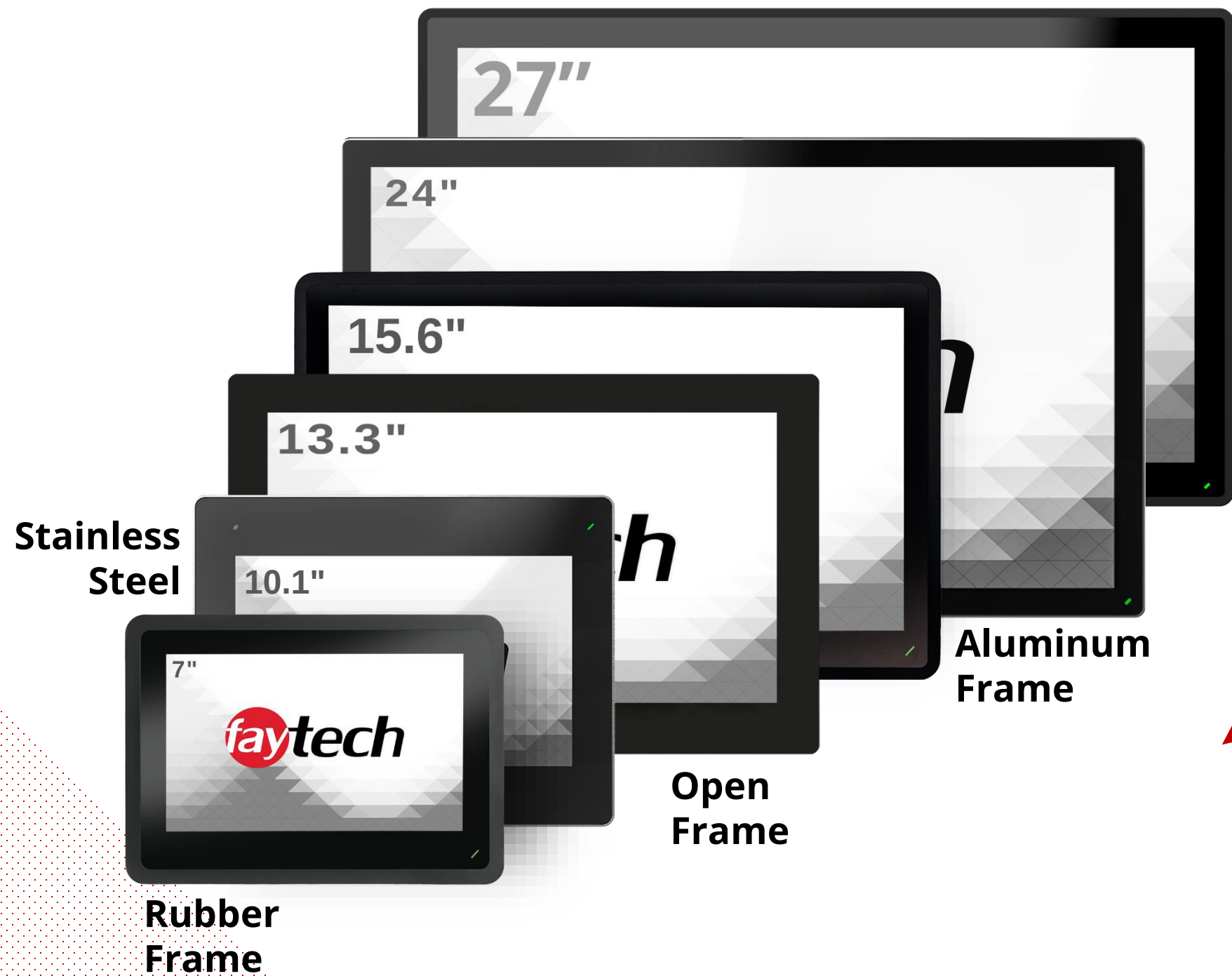
Components produced in China, assembled in local regions, strict quality inspections at both sites.



 **YouTube**

Explanation Video
modularity overview

faytech's Front & Back Kits | Modular



Embedded Amlogic IPCs

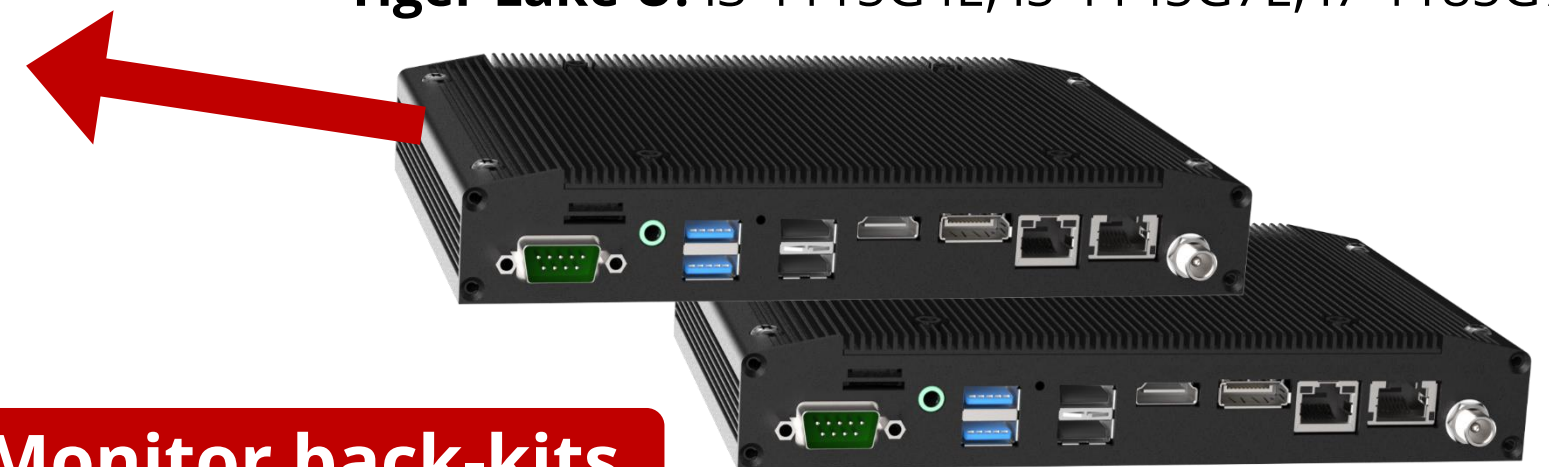
A311D / S905D3



Intel®-Based IPCs

Elkhart Lake: x6413E, x6211E, J6412

Tiger Lake U: i3-1115G4E, i5-1145G7E, i7-1185G7E



Monitor back-kits

RT2556

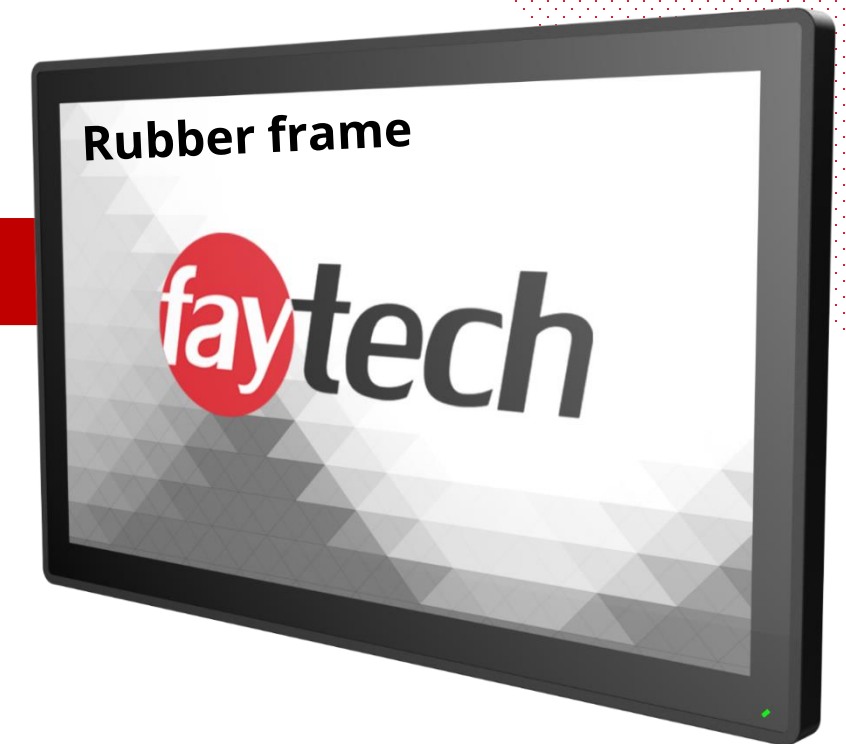


faytech's Front Kits



Rubber Frame Front

- IP65 front panel feature with optical bonding
- For harsh & rugged environments
- Perfect to integrate into machines / control cabinets
- Patented shock-absorbing silicone seal

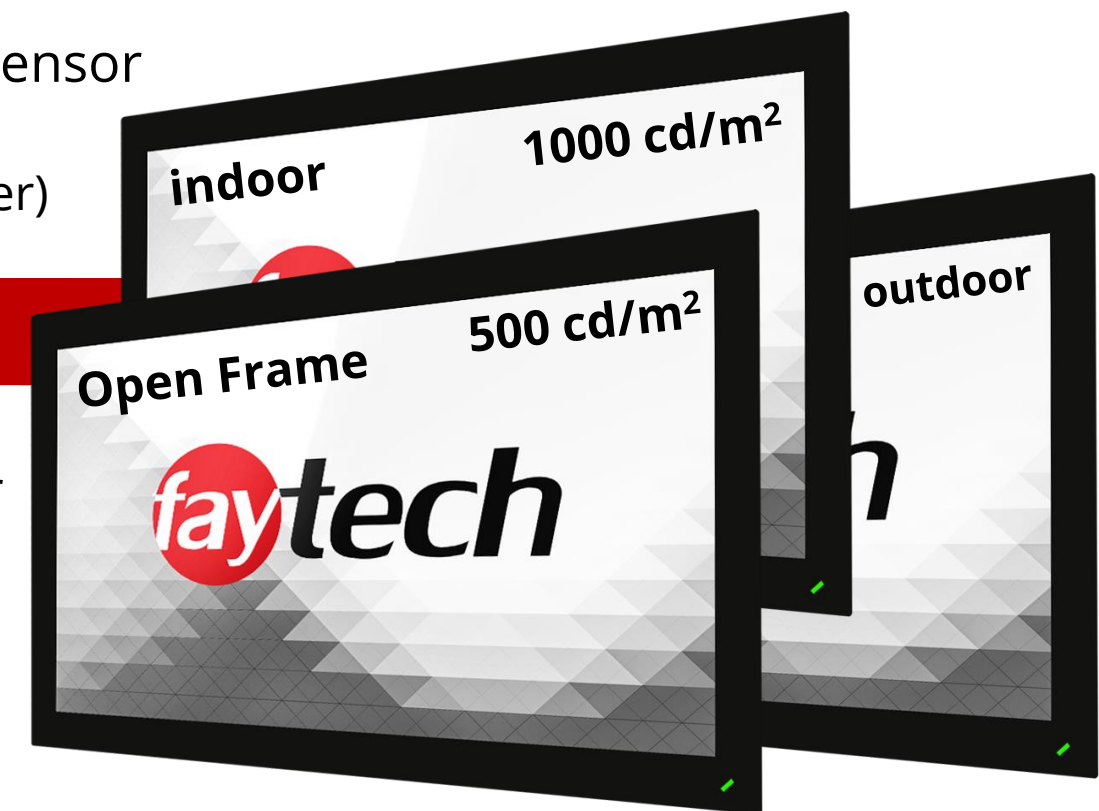


Aluminum Front

- IP65 front panel feature with optical bonding
- Perfect as indoor solution, with plastic touch sensor
- Modern high-quality aluminum frame
- Cost-effective front kit (lower cost touch controller)

Open Frame Fronts

- IP65 front panel feature with optical bonding
- 3 versions: standard, high brightness, outdoor
- Flush-mounting & easy machine integration
- Lightweight aluminum

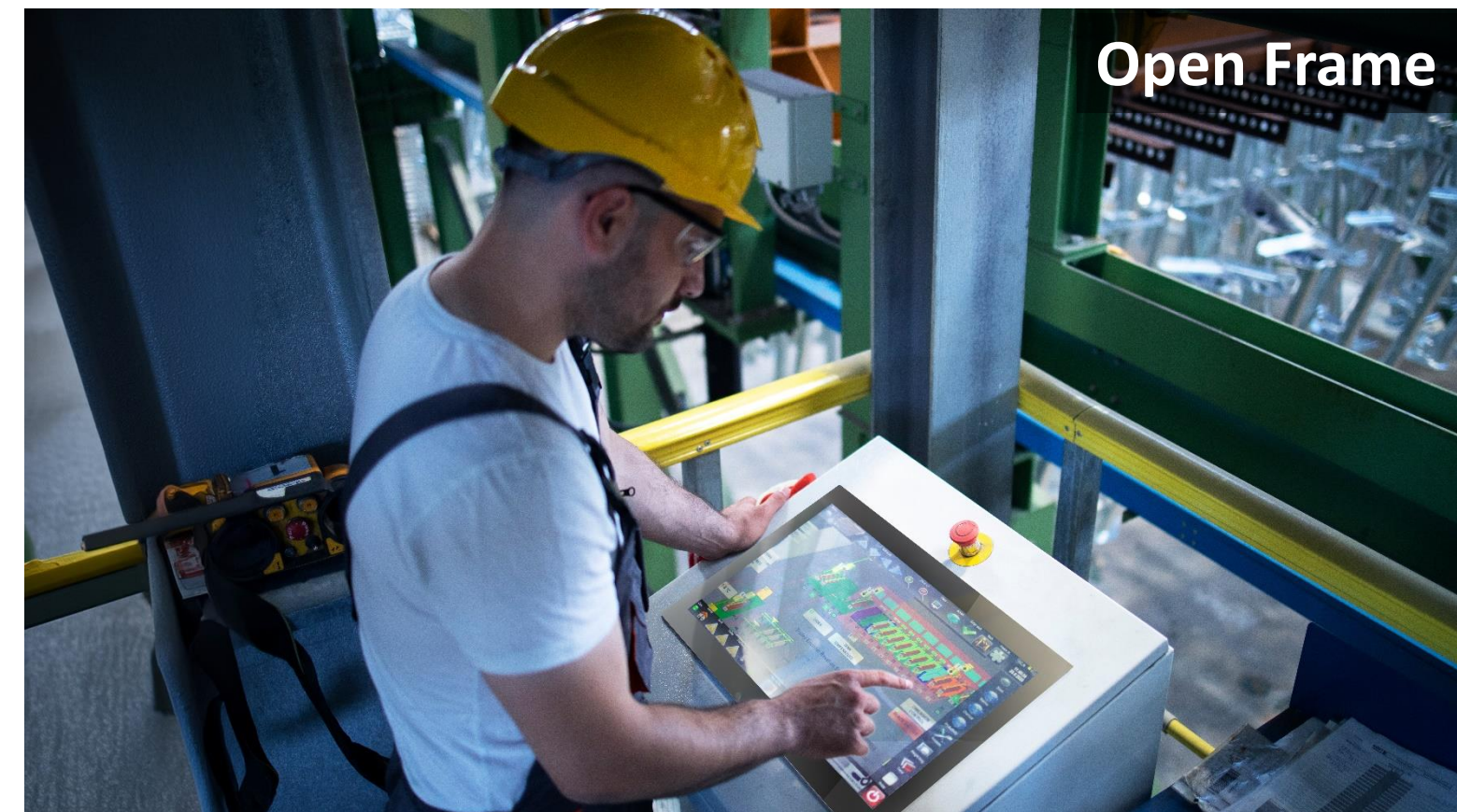


Stainless Steel Front

- Complete IP69K front panel feature with optical bonding
- Perfect as full outdoor solution
- Hygienic stainless-steel material
- Heavy-duty frame for rough applications



faytech's Front Kits



faytech's Front Kits | Rubber & Aluminum Frames



Rubber Frame



Aluminum Frame

Size	Ratio	Resolution	Brightness	Clamps
7"	16:9	1024 × 600	500 cd/m ²	X
8"	4:3	1024 × 768	350 cd/m ²	X
10"	4:3	1024 × 768	300 cd/m ²	✓
10.1"	16:10	1280 × 800	350 cd/m ²	✓
12.1"	4:3	1024 × 768	500 cd/m ²	✓
13.3"	16:9	1920 × 1080	300 cd/m ²	✓
15"	4:3	1024 × 768	420 cd/m ²	✓
15.6"	16:9	1920 × 1080	220 cd/m ²	✓
17"	5:4	1280 × 1024	250 cd/m ²	✓
19"	4:3	1280 × 1024	250 cd/m ²	✓
21.5"	16:9	1920 × 1080	250 cd/m ²	✓
24"	16:9	1920 × 1080	250 cd/m ²	✓
27"	16:9	1920 × 1080	500 cd/m ²	✓

Size	Ratio	Resolution	Brightness	Clamps
7"	16:9	1024 × 600	500 cd/m ²	X
8"	4:3	1024 × 768	350 cd/m ²	X
10.1"	16:10	1280 × 800	350 cd/m ²	✓
13.3"	16:9	1920 × 1080	300 cd/m ²	✓
15"	4:3	1024 × 768	420 cd/m ²	✓
15.6"	16:9	1920 × 1080	220 cd/m ²	✓
21.5"	16:9	1920 × 1080	250 cd/m ²	✓
24"	16:9	1920 × 1080	250 cd/m ²	✓
27"	16:9	1920 × 1080	500 cd/m ²	✓

* Upon request: 10", 12.1", 17" and 19" aluminum frame front kits

faytech's Front Kits | Open Frames (indoor & outdoor)



Open Frame Front
indoor, standard brightness



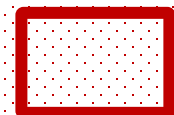
For indoor use



500 cd/m² brightness



30,000 hours LED MTBF



Organic silk print



Open Frame Front
indoor, high brightness



For indoor use



1000 cd/m² brightness



100,000 hours LED MTBF



Organic silk print



Open Frame Front
outdoor, high brightness



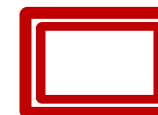
For outdoor use



1000 cd/m² brightness



100,000 hours LED MTBF



Ceramic silk print

faytech's Front Kits | Open Frames (indoor & outdoor)



Open Frame

Indoor
Organic silk print
SB: 30,000 hr
HB: 100,000 hr



Open Frame

Outdoor
Ceramic silk Print
HB: 100,000 hr

Size	Ratio	Resolution	Brightness	Clamps
7"	16:9	1024 × 600	SB: 500 cd/m ² HB: 1000 cd/m ²	✓
10.1"	16:10	1280 × 800	SB: 500 cd/m ² HB: 1000 cd/m ²	✓
11.6"	16:9	1920 × 1080	SB: 500 cd/m ² HB: 1000 cd/m ²	✓
13.3"	16:9	1920 × 1080	SB: 500 cd/m ² HB: 1000 cd/m ²	✓
15"	4:3	1024 × 768	SB: 500 cd/m ² HB: 1000 cd/m ²	✓
15.6"	16:9	1920 × 1080	SB: 500 cd/m ² HB: 1000 cd/m ²	✓
21.5"	16:9	1920 × 1080	SB: 500 cd/m ² HB: 1000 cd/m ²	✓

Size	Ratio	Resolution	Brightness	Clamps
10.1"	16:10	1280 × 800	1000 cd/m ²	✓
15"	4:3	1024 × 768	1000 cd/m ²	✓
15.6"	16:9	1920 × 1080	1000 cd/m ²	✓
21.5"	16:9	1920 × 1080	1000 cd/m ²	✓

*** Upon request: 7", 8", 10", 11.6", 12.1", 13.3", 17", 19", 24" and 27" outdoor open frame front kits**

*** Upon request: 8", 10", 12.1", 17", 19", 24" and 27" indoor open frame front kits**
SB = Standard Brightness HB = High Brightness

faytech's Front Kits | Stainless Steel Frames

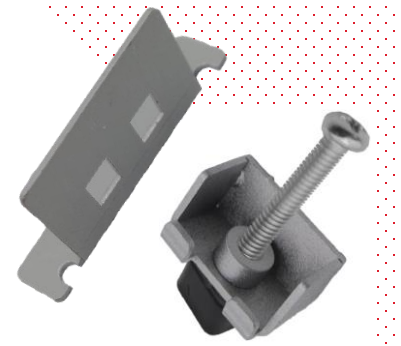


Size	Ratio	Resolution	Brightness	IP rating	Clamps
10.1"	16:10	1280 × 800	1000 cd/m ²	IP69K front	X
12.1	4:3	1024 × 768	1000 cd/m ²	IP69K front	X
15"	4:3	1024 × 768	1000 cd/m ²	IP69K front	X
15.6"	16:9	1920 × 1080	1000 cd/m ²	IP69K front	X
21.5"	16:9	1920 × 1080	1000 cd/m ²	IP69K front	X

* Upon request: 7" ,8" ,10" , 17" , 19" , 24" and 27"
stainless steel frame front kits

faytech's Front Kits | Clamp Mount Solution

The **clamp mount solution** allows for easy integration of your capacitive device into any machine or server door. It will make sure there is a **solid fixation** for any place.



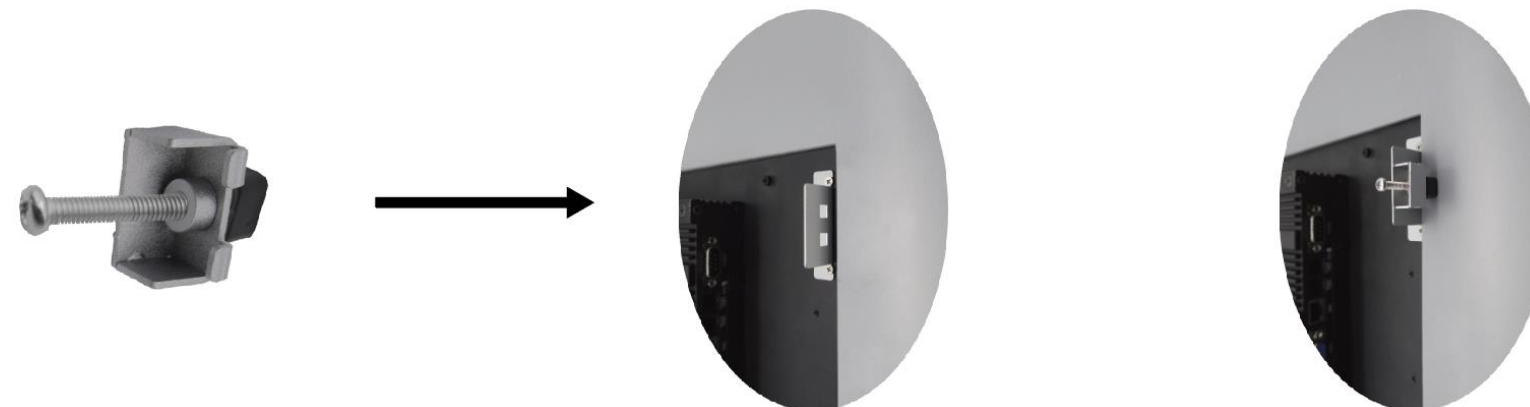
1



2

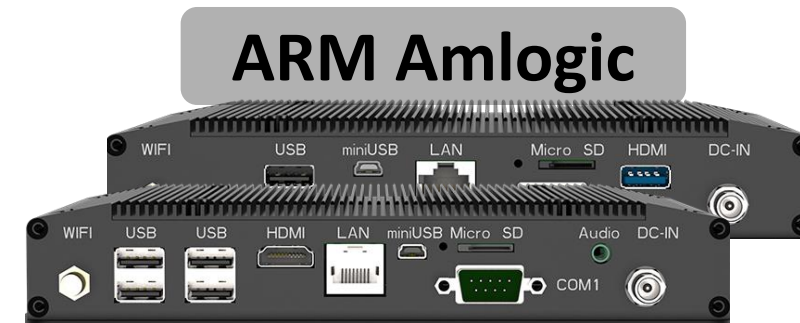


3



Compatible with:
Rubber, Aluminum & Open Frame

faytech's Back kits | IPCs & Monitors



	Elkhart Lake			Tiger Lake U			ARM Amlogic		Monitor
CPU	x6413E x6211E J6412			i3 i5 i7			A311D S905D3		RT2556
	✓	✓	✓	*	✓	*	✓	✓	✓
CPU	Intel® Atom® x6413E	Intel® Atom® x6211E	Intel® Celeron® J6412	Intel® Core™ i3-1115G4E	Intel® Core™ i5-1145G7E	Intel® Core™ i7-1185G7E	4-Core Cortex-A73 + Dual-core Cortex-A53	Quad-Core Cortex A-53	RTD2556T
Total Cores	4	2	4	2	4	4	6	4	
Memory	8GB	8GB	8GB	8GB	8GB	16GB	4GB	2GB	
	Up to 32GB upon request			Up to 64GB upon request			LPDDR4		
Storage	120GB	120GB	120GB	240GB	240GB	240GB	64GB	64GB	
	Up to 1TB upon request			Up to 1TB upon request			eMMC 5.1 (SD card slot expansion)		
GPU	Intel® UHD Graphics			Intel® UHD Graphics	Intel® Iris® Xe Graphics		Mali G52 MP4	Mali G31 MP2	
OS	Win 10/11 & Linux OS			Win 10/11 & Linux OS			Android 9 & Linux OS		
Case Sizes	Small, Large & Stainless Steel			Small & Large			Small, Large & Stainless Steel		Small & Stainless Steel

faytech's Back kits | Large, Small & Stainless Steel Cases



Compatible with:
Rubber, Aluminum & Open Frame



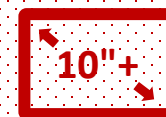
9-36V DC-In

for stable voltage regulation and power management



IP40 back kit

Requires IP65 front integration for use in outdoor environments



10"+ front kits

Available for compatible front sizes 10" or larger



Compatible with:
Rubber, Aluminum & Open Frame



12V DC-In

Standard voltage regulation for included power supply



IP40 back kit

Requires IP65 front integration for use in outdoor environments

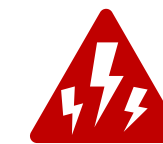


7"+ front kits

Available for all compatible front sizes



Compatible with:
Stainless Steel Frame



9-36V DC-In

for stable voltage regulation and power management



IP65/69K back kit

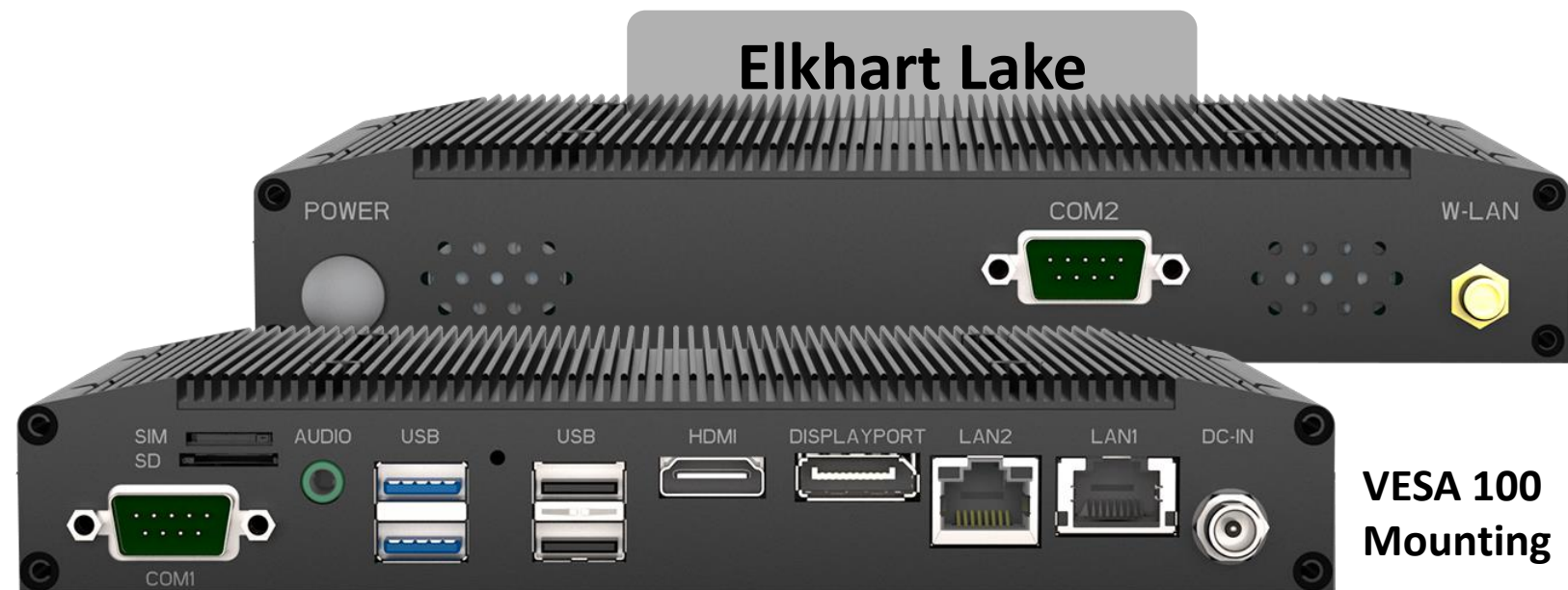
for outdoor use, full IP65 and IP69K options available



10"+ front kits

Available for compatible front sizes 10" or larger

faytech's Back kits | Elkhart Lake & Tiger Lake U



CPU	Intel® Atom® x6413E	Intel® Atom® x6211E	Intel® Celeron® J6412
OS	Win 10/11 & Linux OS		
Memory	8GB	8GB	8GB
	Up to 32GB upon request		
Storage	120GB	120GB	120GB
	Up to 1TB upon request		
Front Kit Fit	Rubber, Aluminum & Open Frame ¹		
Connectors	COM1 (RS232), COM2 (RS232) ² , 2xUSB 2.0, 2xUSB 3.2, HDMI, DisplayPort, LAN1, LAN 2, Audio Jack, SIM / SD Card, W-LAN, DC-In ³		
Case Sizes	Small: 190 x 126.2 x 32mm Large: 190 x 173.2 x 32mm		



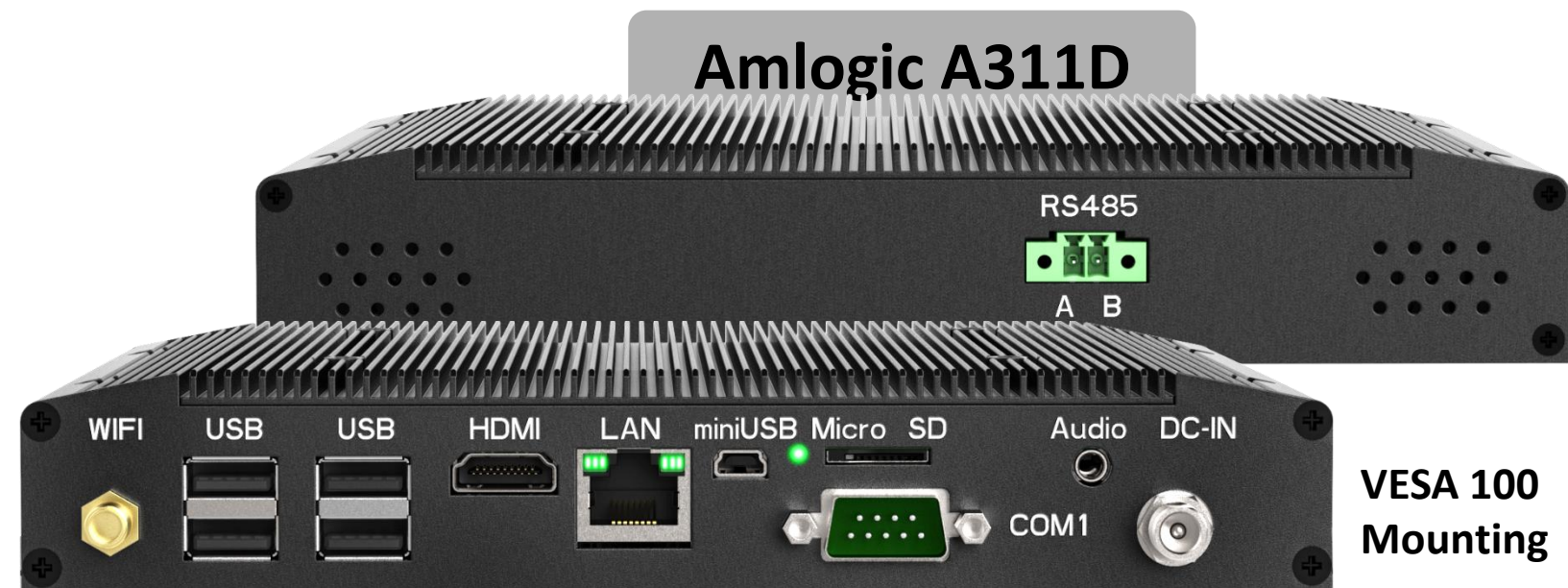
CPU	Intel® Core™ i3-1115G4E	Intel® Core™ i5-1145G7E	Intel® Core™ i7-1185G7E
OS	Win 10/11 & Linux OS		
Memory	8GB	8GB	16GB
	Up to 64GB upon request		
Storage	240GB	240GB	240GB
	Up to 1TB upon request		
Front Kit Fit	Rubber, Aluminum & Open Frame ¹		
Connectors	COM1 (RS232), COM2 (RS232) ² , 2xUSB 2.0, 2xUSB 3.2, HDMI, DisplayPort, LAN1, LAN 2, Audio Jack, SIM / SD Card, W-LAN, DC-In ³		
Case Sizes	Small: 190 x 126.2 x 32mm Large: 190 x 173.2 x 32mm		

¹ Large case only available with front kits 10" or larger

² Only available with large case

³ Small case: 12V DC-In, large case: 9-36V DC-In

faytech's Back kits | Amlogic A311D & S905D3



CPU	A311D 4-Core Cortex-A73 + Dual-core Cortex-A53
OS	Android 9 & Linux OS
Memory	4GB LPDDR4
Storage	64GB eMMC 5.1 (SD card slot expansion)
Front Kit Fit	Rubber, Aluminum & Open Frame ¹
Connectors	COM1 (RS232), COM 2 (RS485) ² , 4xUSB 2.0, USB OTG, HDMI, LAN, Micro-SD card slot, Audio Jack, W-LAN, DC-In ³
Case Sizes	Small: 190 x 126.2 x 32mm Large: 190 x 173.2 x 32mm



CPU	S905D3 Quad-Core Cortex A-53
OS	Android 9 & Linux OS
Memory	2GB LPDDR4
Storage	64GB eMMC 5.1 (SD card slot expansion)
Front Kit Fit	Rubber, Aluminum & Open Frame ¹
Connectors	COM1 (RS232), COM2 (RS485) ² , USB 2.0, USB 3.0, USB OTG, LAN, Micro-SD card slot, W-LAN, DC-In ³
Case Sizes	Small: 190 x 126.2 x 32mm Large: 190 x 173.2 x 32mm

¹ Large case only available with front kits 10" or larger

² Only available with large case

³ Small case: 12V DC-In, large case: 9-36V DC-In

faytech's Back kits | RT2556 Monitor



Board	RTD2556T
Front Kit Fit	Rubber, Aluminum & Open Frame
Buttons & Indicators	Power, B-, B+, Menu, Input, LED indicator
Connectors	HDMI, DisplayPort, VGA, Audio Jack, USB-Touch, COM RS232 (serial), 12V DC-In
Case Sizes	Small: 190 x 126.2 x 32mm

faytech's Back kits | IP65 / IP69K Stainless Steel Series

What does **IP65** & **IP69K** stand for?

IP 6 5

IP 6 9K

1st digit


 **Solids**

6



Dust tight.
No ingress of dust permitted.

2nd digit

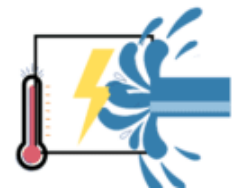
 **Liquids**

5



Protection against low
pressure jets of water from
any angle.

9



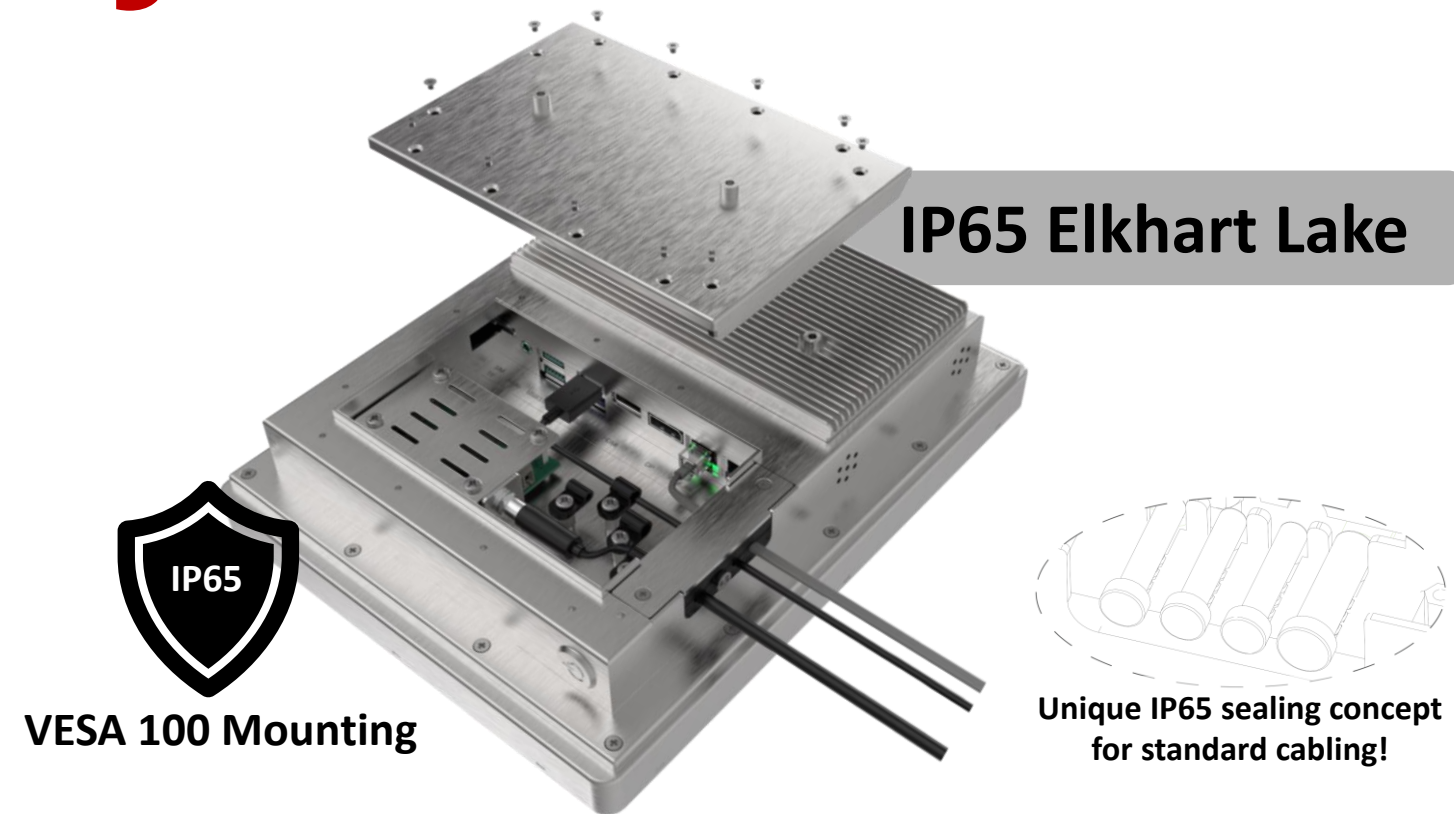
Protection from close-range,
powerful, high temperature
water jets.

9K

The K on the rating denotes the products'
specific degree of protection for use in
road vehicles as per ISO 20653.



faytech's Back kits | IP65 / IP69K Stainless Steel Elkhart Lake



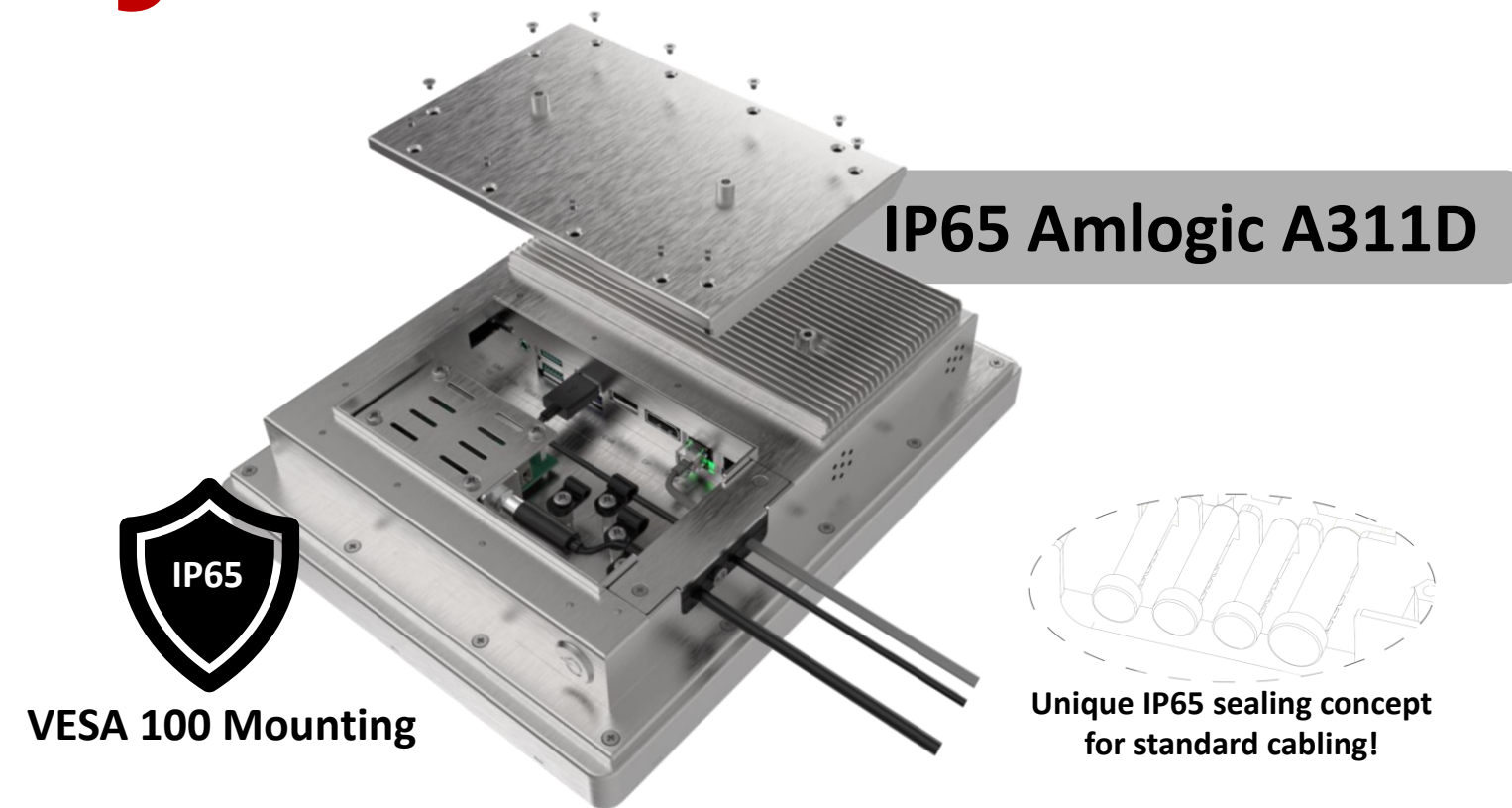
CPU	Intel® Atom® x6413E	Intel® Atom® x6211E	Intel® Celeron® J6412
OS	Win 10/11 & Linux		
Memory	8GB	8GB	8GB
		Up to 32GB upon request	
Storage	120GB	120GB	120GB
		Up to 1TB upon request	
Front Kit Fit	Stainless Steel		
Connectors	2xUSB 2.0, 2xUSB 3.2, HDMI, DisplayPort, LAN1, LAN 2, Audio Jack, SIM / SD Card, W-LAN, 9-36V DC-In, light sensor		
Case Sizes	242.0 x 180.2 x 34mm		



CPU	Intel® Atom® x6413E	Intel® Atom® x6211E	Intel® Celeron® J6412
OS	Win 10/11 & Linux		
Memory	8GB	8GB	8GB
		Up to 32GB upon request	
Storage	120GB	120GB	120GB
		Up to 1TB upon request	
Front Kit Fit	Stainless Steel		
Connectors	IP69K COM M12 connector (RX/TX, 3 pin), IP69K USB M12 connector (12 pin), IP69K LAN M12 connector (8 pin), IP69K DC-In M12 connector (4 pin), W-LAN Connector + light sensor		
Case Sizes	242.0 x 180.2 x 34mm		

Also available with Tiger Lake U mainboard upon request

faytech's Back kits | IP65 / IP69K Stainless Steel Amlogic A311D



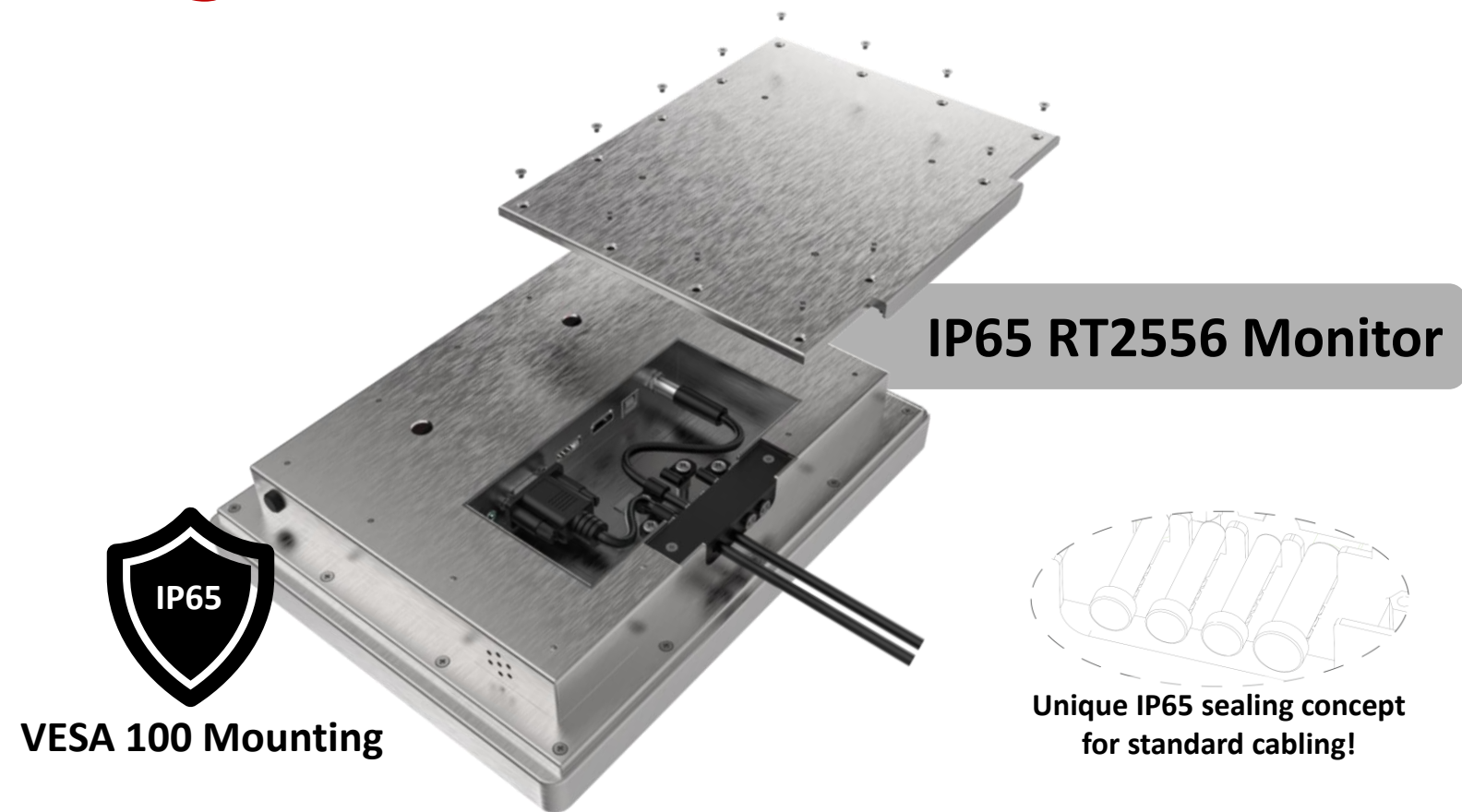
CPU	A311D 4-Core Cortex-A73 + Dual-core Cortex-A53
OS	Android 9 & Linux OS
Memory	4GB LPDDR4
Storage	64GB eMMC 5.1 (SD card slot expansion)
Front Kit Fit	Stainless Steel
Connectors	4xUSB 2.0, USB OTG, HDMI, LAN, Micro-SD card slot, Audio Jack, W-LAN, 9-36V DC-In + light sensor
Case Sizes	242.0 x 180.2 x 32mm



CPU	A311D 4-Core Cortex-A73 + Dual-core Cortex-A53
OS	Android 9 & Linux OS
Memory	4GB LPDDR4
Storage	64GB eMMC 5.1
Front Kit Fit	Stainless Steel
Connectors	IP69K COM M12 connector (RX/TX, 12 pin), IP69K USB + OTG M12 connector (12 pin), IP69K LAN M12 connector (8 pin), IP69K DC-In M12 connector (4 pin), W-LAN + light sensor
Case Sizes	242.0 x 180.2 x 32mm

Also available with Amlogic S905D3 mainboard upon request

faytech's Back kits | IP65 / IP69K Stainless Steel RT2556 Monitor



Board	RTD2556T
Front Kit Fit	Stainless Steel
Buttons & Indicators	Power, B-, B+, Menu, Input, LED indicator
Connectors	HDMI, DisplayPort, VGA, Audio Jack, USB-Touch, COM RS232 (serial), DC-In ¹ + light sensor
Case Sizes	242.0 x 180.2 x 32mm

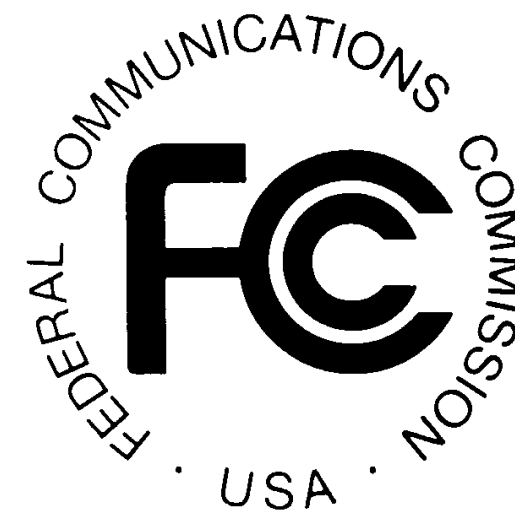
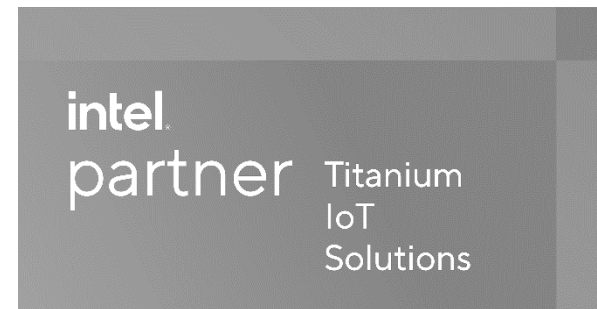


Board	RTD2556T
Front Kit Fit	Stainless Steel
Buttons & Indicators	Power, B-, B+, Menu, Input, LED indicator
Connectors	IP69K 9-36V M12 connector (12 pin), IP69K HDMI connector + light sensor
Case Sizes	242.0 x 180.2 x 32mm

¹ Available with 12V DC-In or 9-36V DC-In

Our Certifications

Besides our **ISO9001:2015**, **ISO 14001:2015**, **ISO 45001:2018** and **IATF 16949** conformity, we also have the following certifications and partnerships.



Capacitive Touch Technology Expert



Expert in Capacitive multi-touch technology, with touch engineers solely focused on **touch sensitivity** and **firmware** fine-tuning.



Gloves Compatibility

Adjustable touch sensitivity & firmware allows full use with industrial or medical gloves



No Droplets Interference

Due to the adjustable sensitivity, in humid or conditions with water droplets, no ghost touches will occur



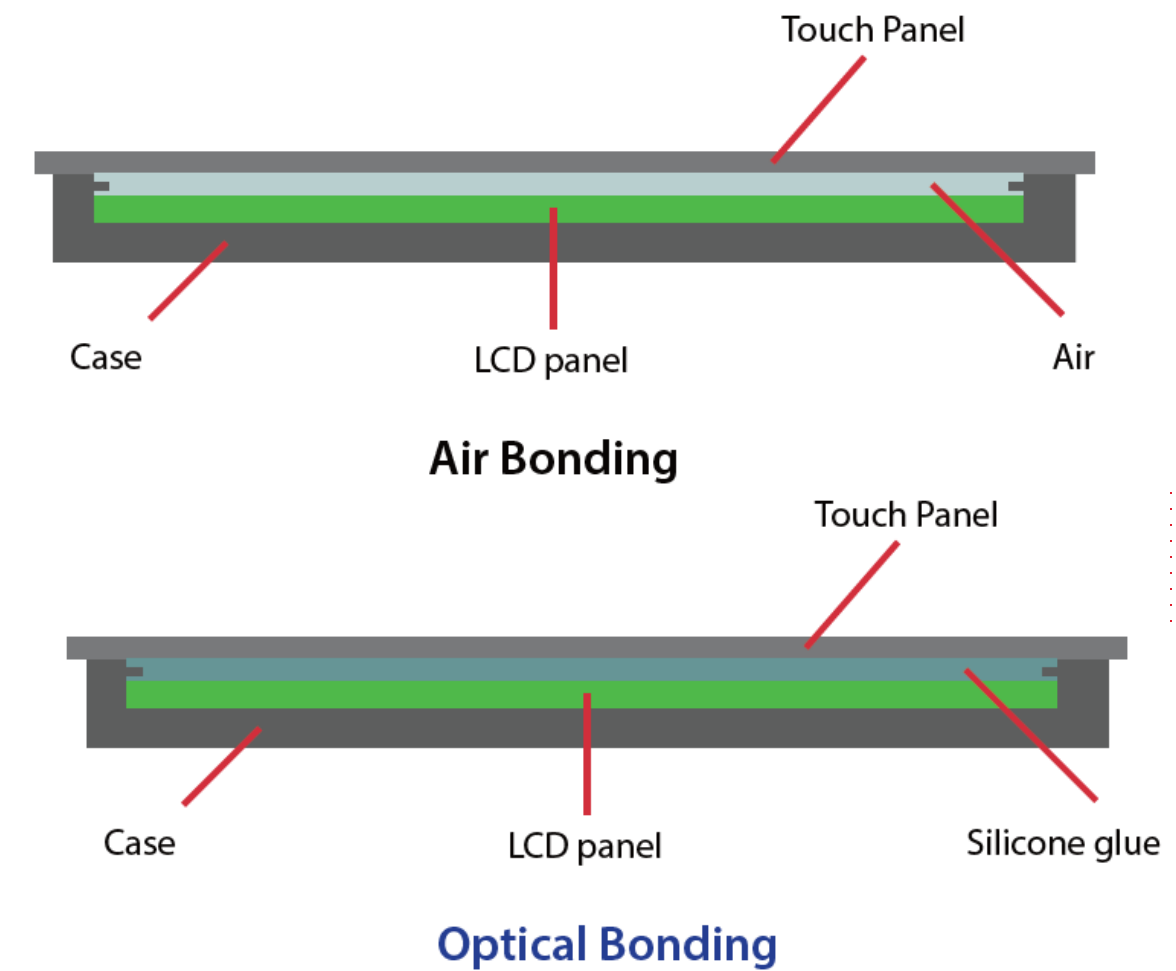
Optical Bonding Experts

What is Optical Bonding?

Optical bonding is the process of filling up the airgap between the cover glass / touch panel and LCD cell / module to improve the visual and material features and with that the quality and value of the bonded device.

Why Optical Bonding?

- Optical bonding reduces reflections by about **65%**
- It enhances the perceived LCD brightness by up to **10%**
- No humidity or dust is able to enter between the touch panel and LCD cell
- Additional resistance towards environmental forces onto the glass



**CLEAR
BOND**

Own Glue Formula
With highest quality
standard in the market



YouTube

Comparison Video
Showing Optical Bonding!



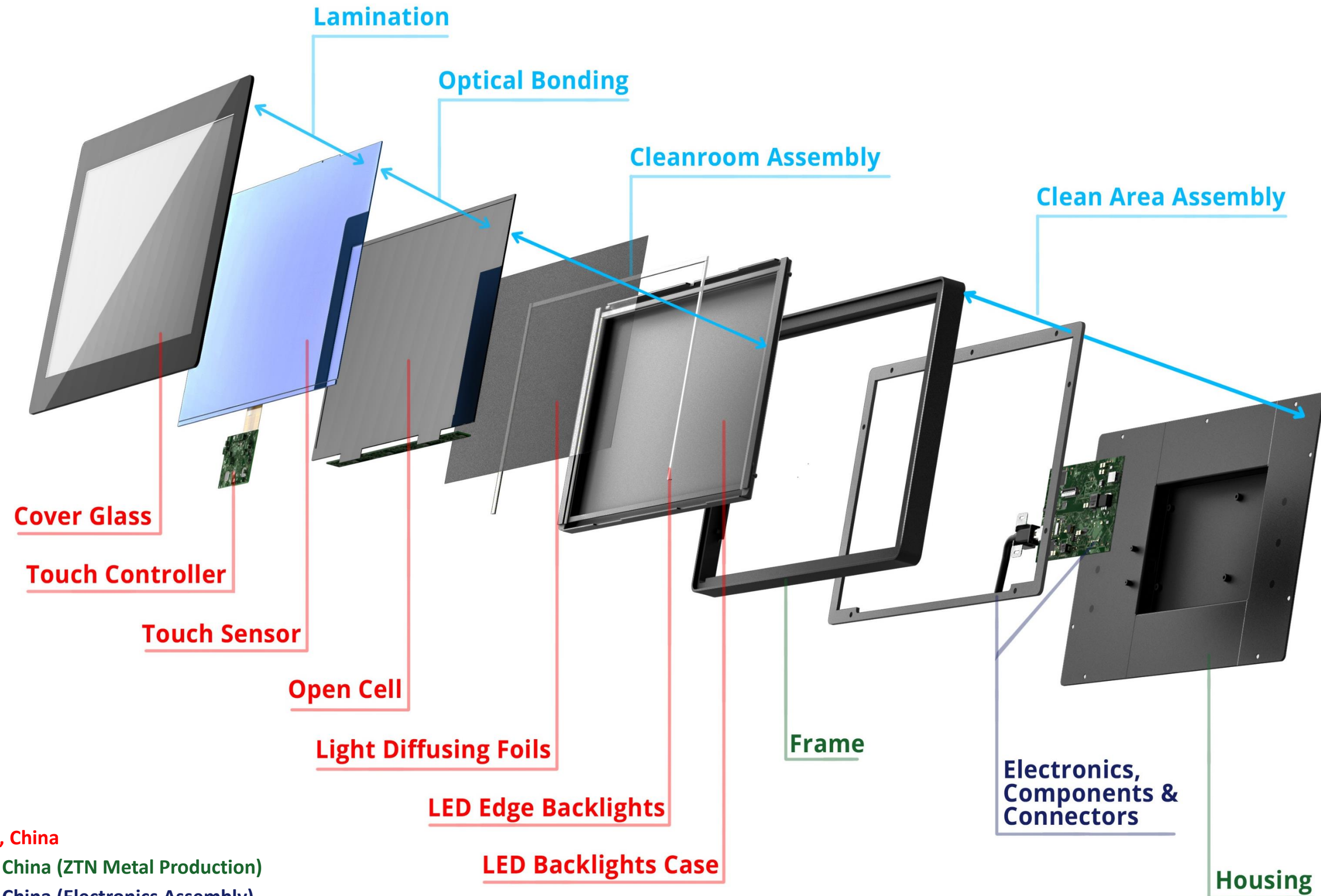
Experts in Customizations

We can **custom design and produce any touch device** for your project. We do this by utilizing our **broad manufacturing capabilities, experienced engineers** and **extensive portfolio of completed projects**.

- RFID-, fingerprint- or laser scanner
- Integrated camera
- Customized buttons
- Customized connectors
- Different mounting options
- Anti-Microbial coating options
- Bluetooth, 3G, 4G and Wi-Fi
- Pick your own faytech mainboard
- Other added peripheral possibilities
- Complete IP65/IP69K water- & dustproof



Our Advantages #1

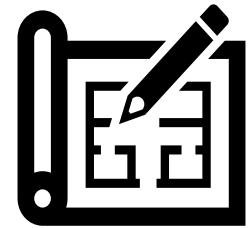


● faytech Huizhou, China

● faytech Suining, China (ZTN Metal Production)

● faytech Suining, China (Electronics Assembly)

Our Advantages #2



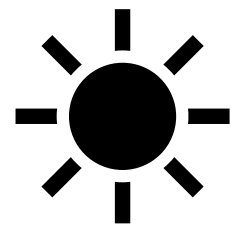
Own Mainboard Design

With own engineers in-house & Partners in Taiwan & Germany



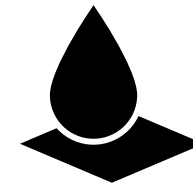
Own Touch Controller Design

Completely done in-house (capacitive touch)



High Brightness Modification

Up to 2,500 nits (cd/m²)



(True) Optical Bonding

In-house service, own formula / development, fully automated with dispensing patent technology



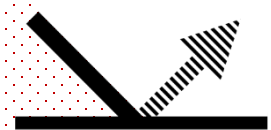
IP65 / IP68 / IP69K

Water- & dust-proof protection



Shatter Protection

1.1-2mm cover glass, 7H, IK08 standard up to 10mm (9H/IK10 possibility)



Coating Technologies

Anti-glare, anti-fingerprint, Anti-microbial (Kastus[®]), Infrared, UV



Low Power Consumption

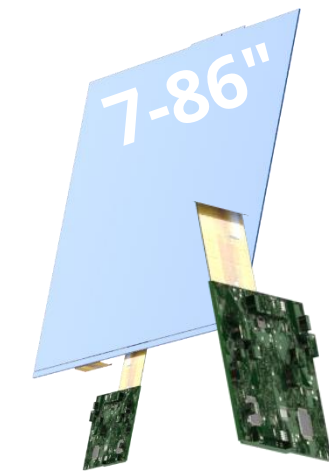
Significant cost-saving, extend product life, good for environment

Our Advantages #3



Cover Glass

With coating technology possibility (7-86")



Touch Sensors & Controllers

Capacitive touch sensor & controllers designed in-house (7-86")



Touch Panels

Cover glass + touch sensor laminated in-house (7-86")



Housings

Aluminum / metal housing: JV with Zentner in Suining (custom sizes available)



Completed Touch-Kits

LCD panel + Touch Panel (incl. touch controller)



Optically bonded in-house with own glue formula (7-55")

About us

faytech has been manufacturing touch PCs since 2010 at its factory in China. All touch devices are solely designed and manufactured by faytech using its own ISO 9001:2015 certified production lines, following strict German quality guidelines and expectations. faytech is also ISO 14001 and IATF 16949 certified.

In 2022, faytech became a part of **Pyramid AG group**, allowing us to truly focus on our growth, innovation, and competitive advantage in the touch devices market – the 3 brands of Pyramid: Akhet®, faytech® and Polytouch®

PYRAMID



2022 REBRANDING in PYRAMID AG



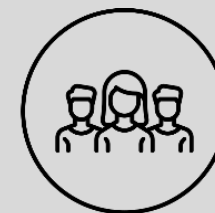
PYRAMID GmbH (1985)
FAYTECH AG (2010)

2004 PYRAMID AG



(mic AG) M3BK • ETR
Listed since 2004 (SCALE)

600+ EMPLOYEES



Worldwide

3 CONTINENTS



We are active on three continents

\$100 million in 2022



PYRAMID GmbH and FAYTECH AG

 **Pyramid Computer GmbH**
Freiburg, Germany

 **Pyramid Computer GmbH**
Amt Wachsenburg, Germany

 **Pyramid Computer GmbH**
Witzenhausen, Germany

 **faytech Tech Co., Ltd.**
Shenzhen, China

 **Sichuan faytech Tech. Co.**
Suining, China

 **Huizhou faytech Tech Co., Ltd**
Huizhou, China


 **faytech Inc.**
Tokyo, Japan

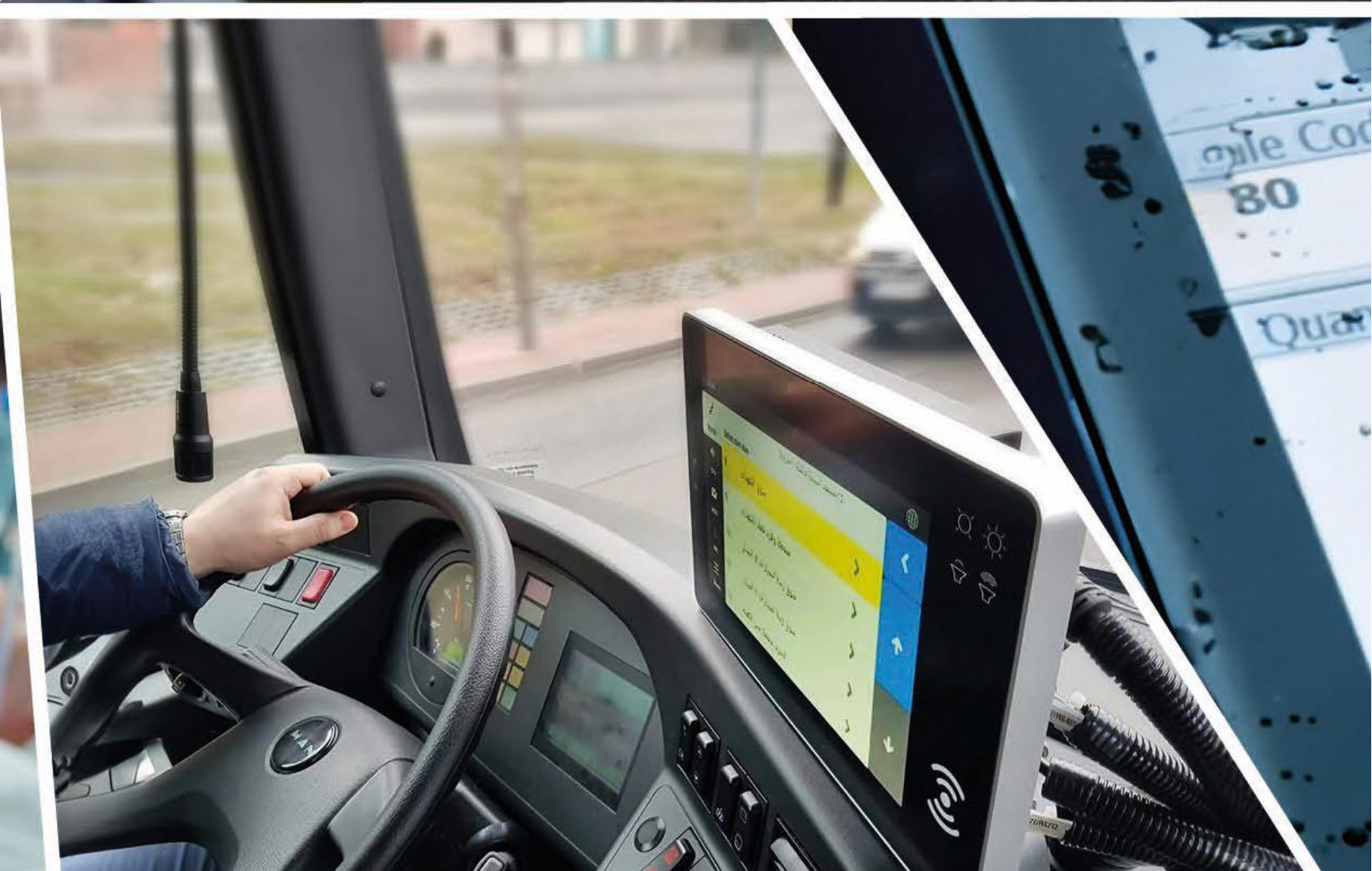
 **Deutsche faytech Korea**
Seongnam-si, South Korea

 **faytech Private Limited**
New Delhi, India

Represented by

 **Pyramid North America Inc.**
Herndon, USA

 **faytech US dba Connect Tronics LLC**
New York, USA



THANK YOU

faytech.com

