



faytech's Modular front- & back-kit Solutions

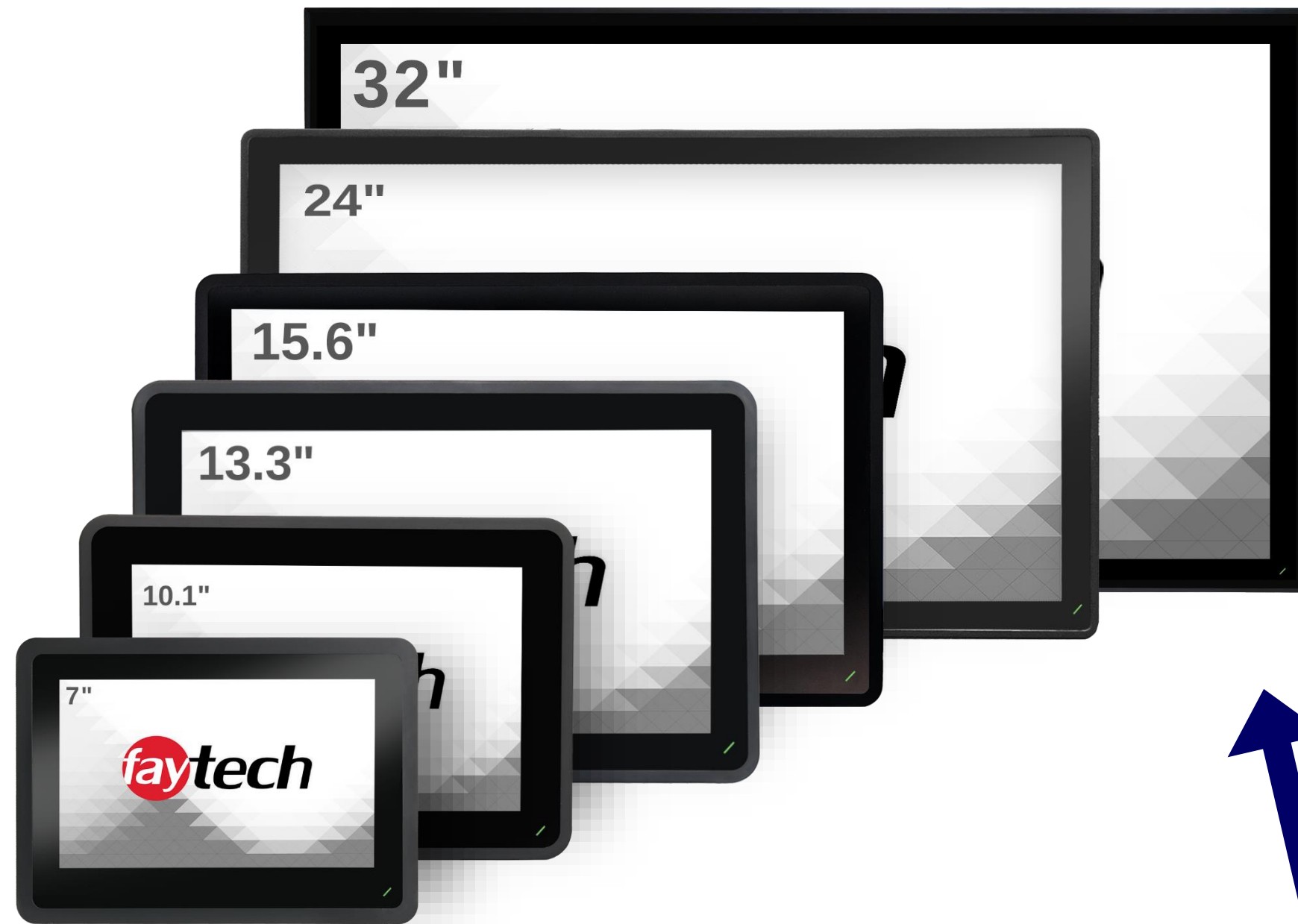
THINK GLOBAL.

ACT LOCAL.

DIGITAL AUTOMATION.

PYRAMID

faytech's Modular Front- & Back-kits



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



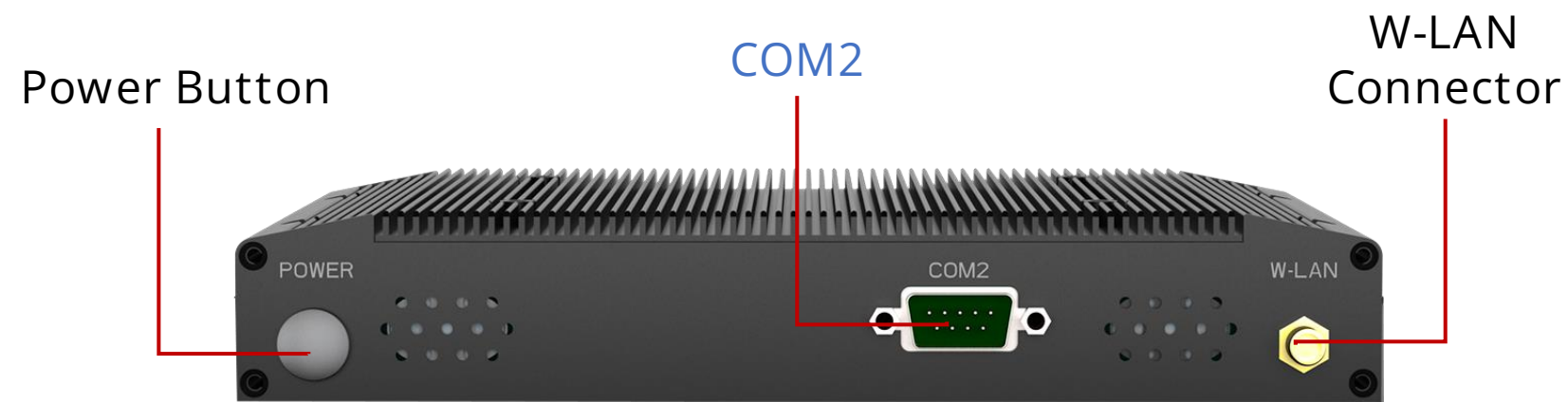
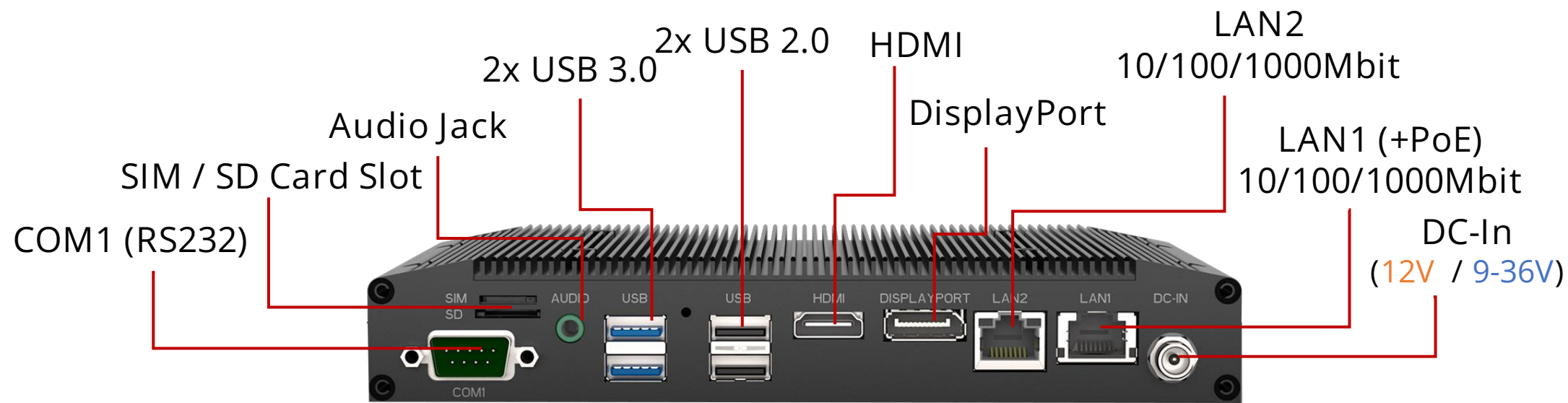
faytech's Front-kits

| | 7" | 8" | 10" | 10.1" | 12.1" | 13.3" | 15" | 15.6" | 17" | 19" | 21.5" | 24" | 27" | 32" |
|---------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|----------------|----------------|----------------|
| Display Size | 7.0 | 8.0 | 9.7 | 10.1 | 12.1 | 13.3 | 15 | 15.6 | 17.0 | 19.0 | 21.5 | 24.0 | 27.0 | 32.0 |
| Aspect Ratio | 16 : 9 | 4 : 3 | 4 : 3 | 16:10 | 4 : 3 | 16 : 9 | 4 : 3 | 16 : 9 | 5 : 4 | 4:3 | 16 : 9 | 16 : 9 | 16 : 9 | 16 : 9 |
| Resolution | 1024 × 600 | 1024 × 768 | 1024 × 768 | 1280 × 800 | 1024 × 768 | 1920 × 1080 | 1024 × 768 | 1920 × 1080 | 1280 × 1024 | 1280 × 1024 | 1920 × 1080 | 1920 × 1080 | 1920 × 1080 | 1920 × 1080 |
| Active Area [mm] | 154.21 × 85.92 | 162.05 × 121.54 | 196.61 × 147.46 | 216.96 × 135.60 | 245.76 × 184.32 | 293.76 × 165.24 | 304.1 × 228.1 | 344.16 × 193.59 | 337.92 × 270.34 | 374.784 × 299.8272 | 476.064 × 267.786 | 597.6 × 336.15 | 597.6 × 336.15 | 698.4 × 392.85 |
| Brightness [cd/m ²] | 500 | 350 | 300 | 350 | 500 | 300 | 420 | 220 | 250 | 250 | 250 | 300 | 300 | 500 |
| Contrast Ratio | 800 : 1 | 800 : 1 | 800:1 | 800 : 1 | 700 : 1 | 800 : 1 | 800 : 1 | 800 : 1 | 1000 : 1 | 1000 : 1 | 1000 : 1 | 3000 : 1 | 3000 : 1 | 4000 : 1 |
| LED Life-time [h] | 20000 | 20000 | 20000 | 30000 | 50000 | 15000 | 30000 | 15000 | 30000 | 30000 | 30000 | 30000 | 30000 | 50000 |
| Viewing Angle [°] | 150 / 145 | 170/170 | 170/170 | 170 / 170 | 160 / 160 | 170 / 170 | 160 / 160 | 170 / 170 | 170 / 160 | 178/178 | 178/ 178 | 178 / 178 | 178 / 178 | 178 / 178 |
| Display Interface | LVDS | LVDS | LVDS | LVDS | LVDS | eDP | LVDS | eDP | LVDS | LVDS | LVDS | LVDS | LVDS | LVDS |
| Dimensions L x W [mm] | 195.6 × 137.6 | 201.0 × 160.5 | 244.9 × 195.8 | 278.0 × 203.6 | 301.0 × 246.0 | 338.2 × 220.7 | 359.0 × 291.0 | 389.3 × 246.8 | 393.0 × 333.0 | 431.5 × 364.5 | 532.0 × 331.0 | 579.4 × 347.0 | 663.0 × 405.0 | 768.0 × 475.0 |
| No. of Clamp supports | N/A | N/A | 4 | 4 | 6 | 4 | 6 | 4 | 6 | 6 | 6 | 7 | 10 | N/A |
| Front Kit Panel Consumption [W] | 3.303 | TBD | TBD | 3.5 | 8.609 | 3.8 | 8.8 | 4.58 | 7.5 | 14.216 | 18.49 | 20.98 | TBD | TBD |

faytech's Back-kits (IPC & Monitors)

| | Elkhart Lake | | | Tiger Lake U | | | Embedded Amlogic | | Monitor |
|------------------------------|-------------------------------------|---------------------|-----------------------|-------------------------------------|--------------------------|-------------------------|--|-----------------------|----------------------------|
| | x6413E | x6211E | J6412 | i3-1115G4E | i5-1145G7E | i7-1185G7E | A311D | S905D3 | RT2556 |
| CPU / Chipset / Board | 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 | 2 | 4 | 4 | 2 | 4 | 4 | 6 | 4 | |
| Memory | 8GB | 4GB | 4GB | 8GB | 8GB | 16GB | 4GB - LPDDR4 | 2GB - LPDDR4 | |
| Storage | 120GB SSD | 120GB SSD | 120GB SSD | 120GB SSD | 240GB SSD | 240GB SSD | 64GB - eMMC 5.1 | 64GB - eMMC 5.1 | |
| Burst Frequency | 3.00 GHz | 3.00 GHz | 2.60 GHz | 4.10 GHz (max turbo) | 4.10 GHz (max turbo) | 4.40 GHz (max turbo) | N/A | | |
| Base Frequency | 1.50 GHz | 1.30 GHz | 2.00 GHz | 2.20 GHz | 1.50 GHz | 1.80 GHz | N/A | | N/A |
| Cache | 1.5MB L2 | 1.5MB L2 | 1.5MB L2 | 6MB (Smart Cache) | 8MB (Smart Cache) | 12MB (Smart Cache) | N/A | | |
| TPM (Intel) / NPU (Embedded) | INFINEON 9672VU2.0 TPM 2.0 | | | INFINEON 9672VU2.0 TPM 2.0 | | | 5.0 TOPS | 1.2 TOPS | |
| GPU | Intel® UHD Graphics | | | Intel® UHD Graphics | Intel® Iris® Xe Graphics | | Mali G52 MP4 | Mali G31 MP2 | |
| Supported OS | Debian 12 / Win 10/11, Linux Ubuntu | | | Debian 12 / Win 10/11, Linux Ubuntu | | | Android 9 / Linux+QT / Debian 12 | | |
| TDP / Consumption | 9 W | 6 W | 10 W | 15 W | 15 W | 15 W | 5 W | 5 W | 1W |
| Audio | Realtek® ALC897 Audio CODEC | | | Realtek® ALC897 Audio CODEC | | | 6MAX98090 audio chip | | Integrated speakers (2x2w) |
| Case Sizes | Small & Large | | | Small & Large | | | Small & Large | | Small |

faytech's Back-kits: Elkhart Lake



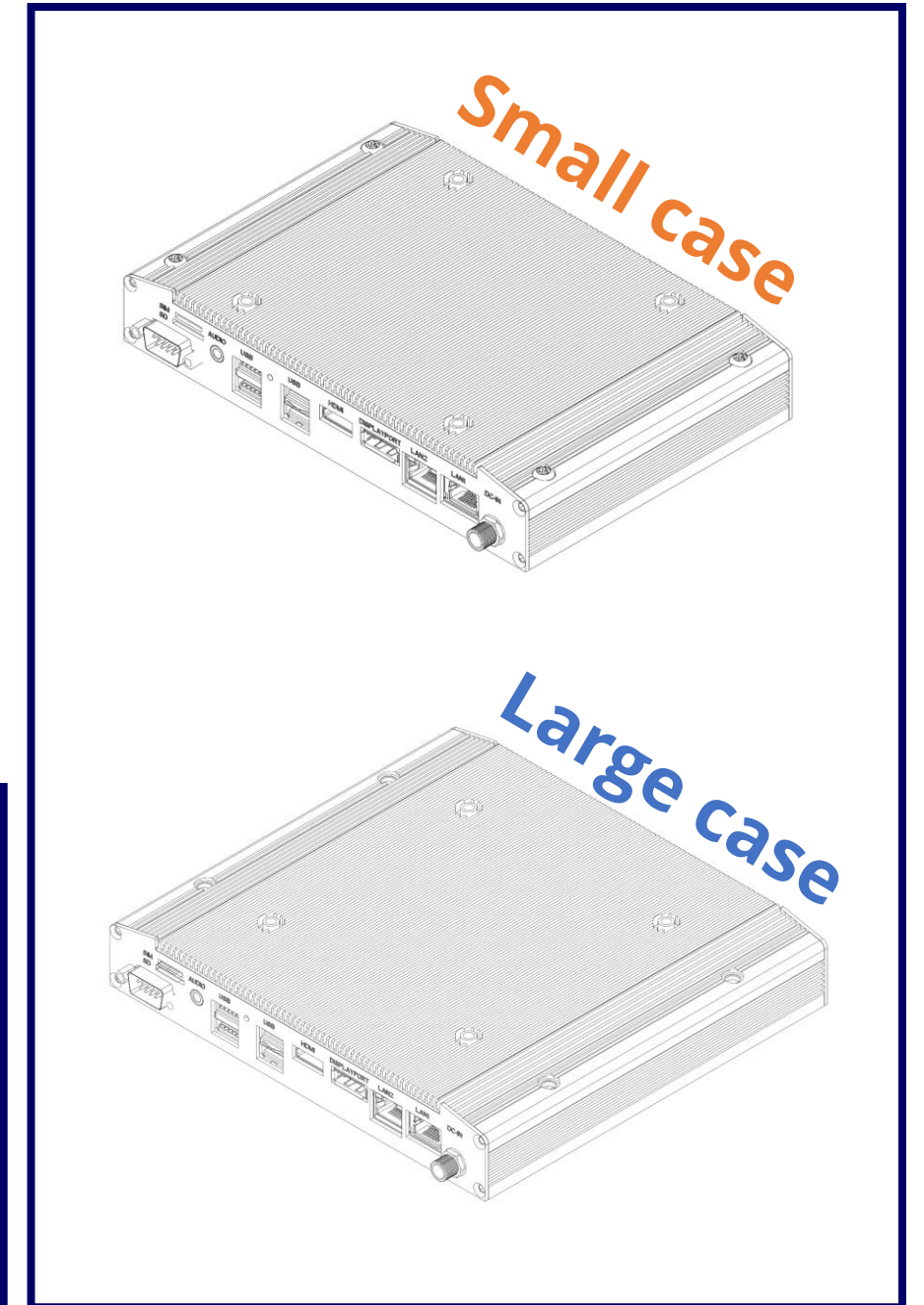
OS Support



Windows 10/11



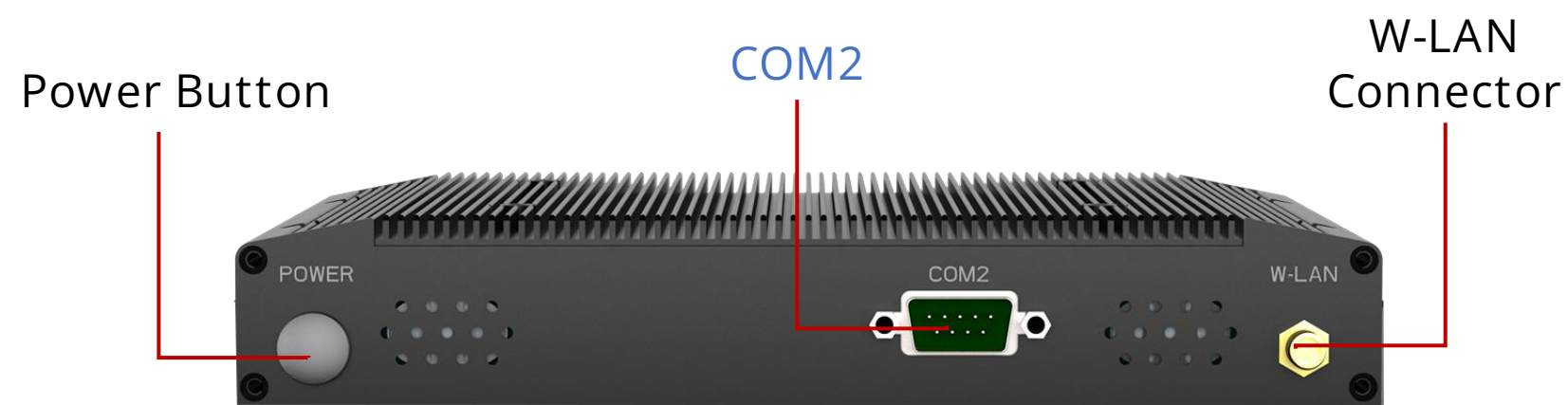
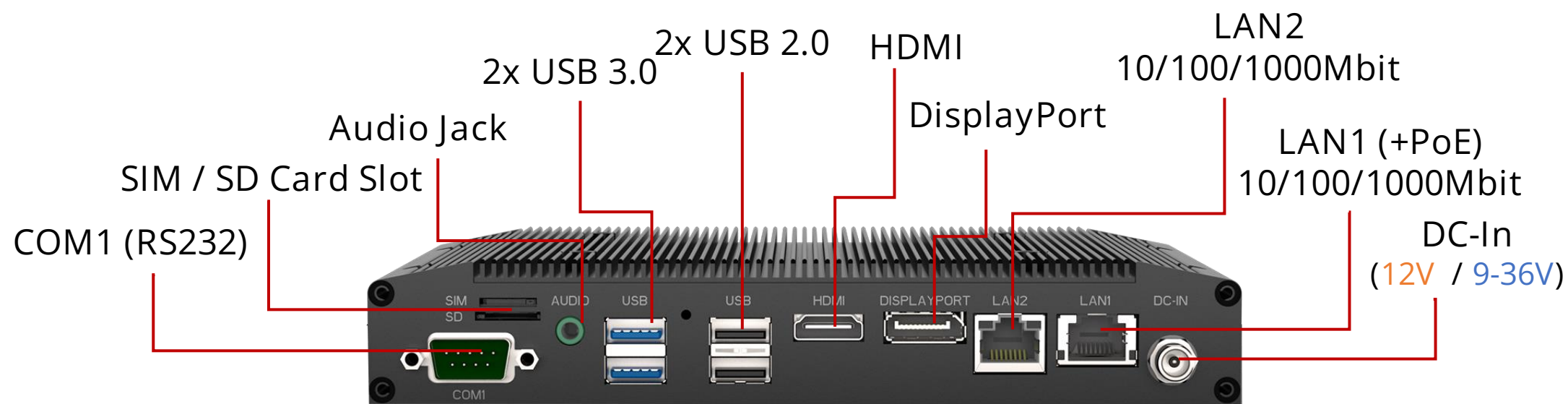
Linux Ubuntu



| | CPU | OS | Storage | Front-kit fit | Housing size | Connectors |
|--------------------|--------------------------------|----------------------------|-----------|---------------|--------------------|---|
| Small case version | Intel® x6413E Intel® x6211E | Debian 12 Windows 10/11 | 4-8GB RAM | 7-32" | 190 x 126.2 x 32mm | COM1, 2xUSB 2.0, 2xUSB 3.0, HDMI, DisplayPort, LAN1, LAN 2, DC-In (12V), Audio Jack, SIM / SD Card, W-LAN, Power button |
| Large case version | Intel® J6412 | Linux Ubuntu | 120GB SSD | 10-32" | 190 x 173.2 x 32mm | COM1, COM2, 2xUSB 2.0, 2xUSB 3.0, HDMI, DisplayPort, LAN1, LAN 2, DC-In (9-36V), Audio Jack, SIM / SD Card, W-LAN, Power button |

*all units have VESA100 mounting holes

faytech's Back-kits: Tiger Lake U



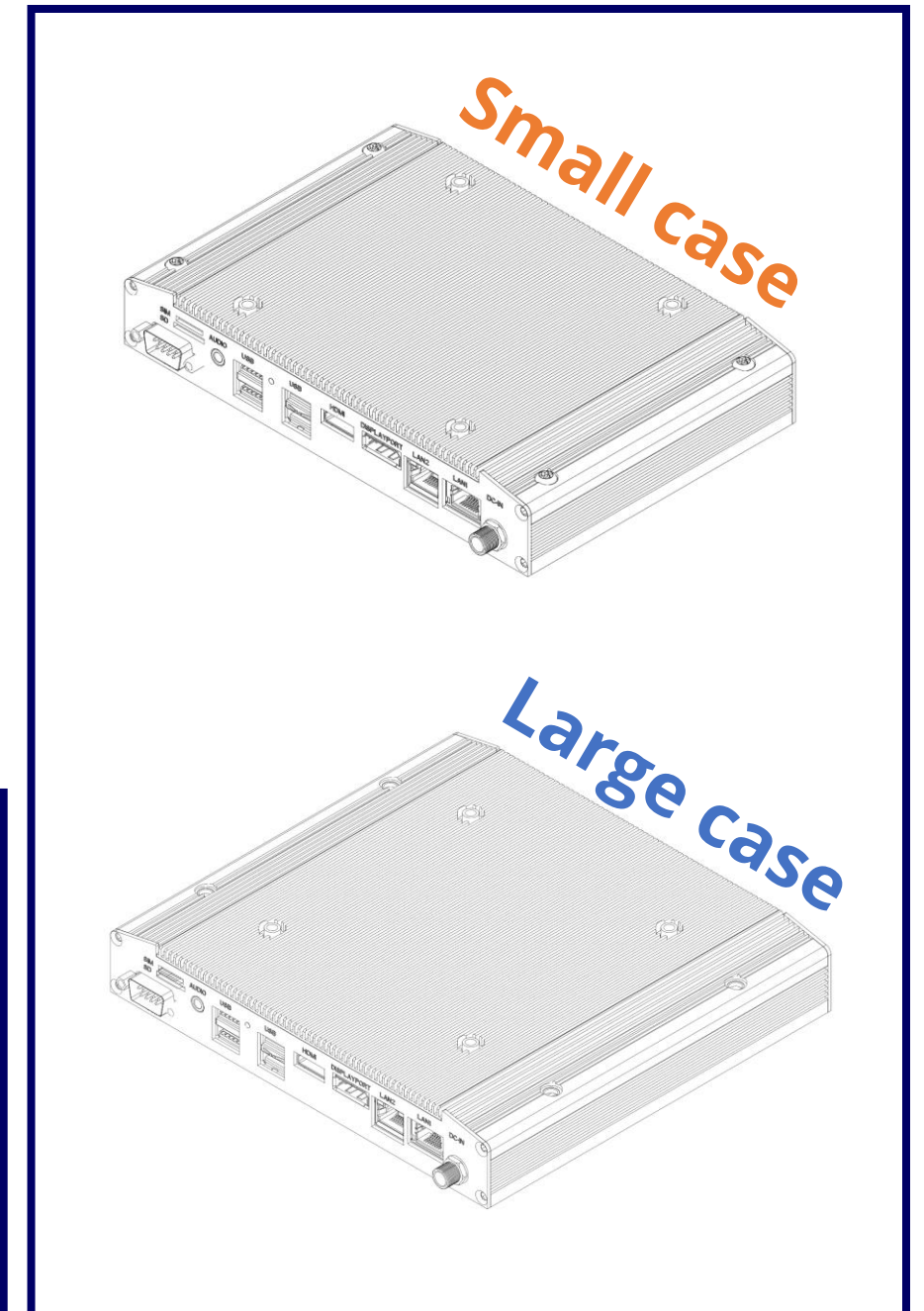
OS Support



Windows 10/11



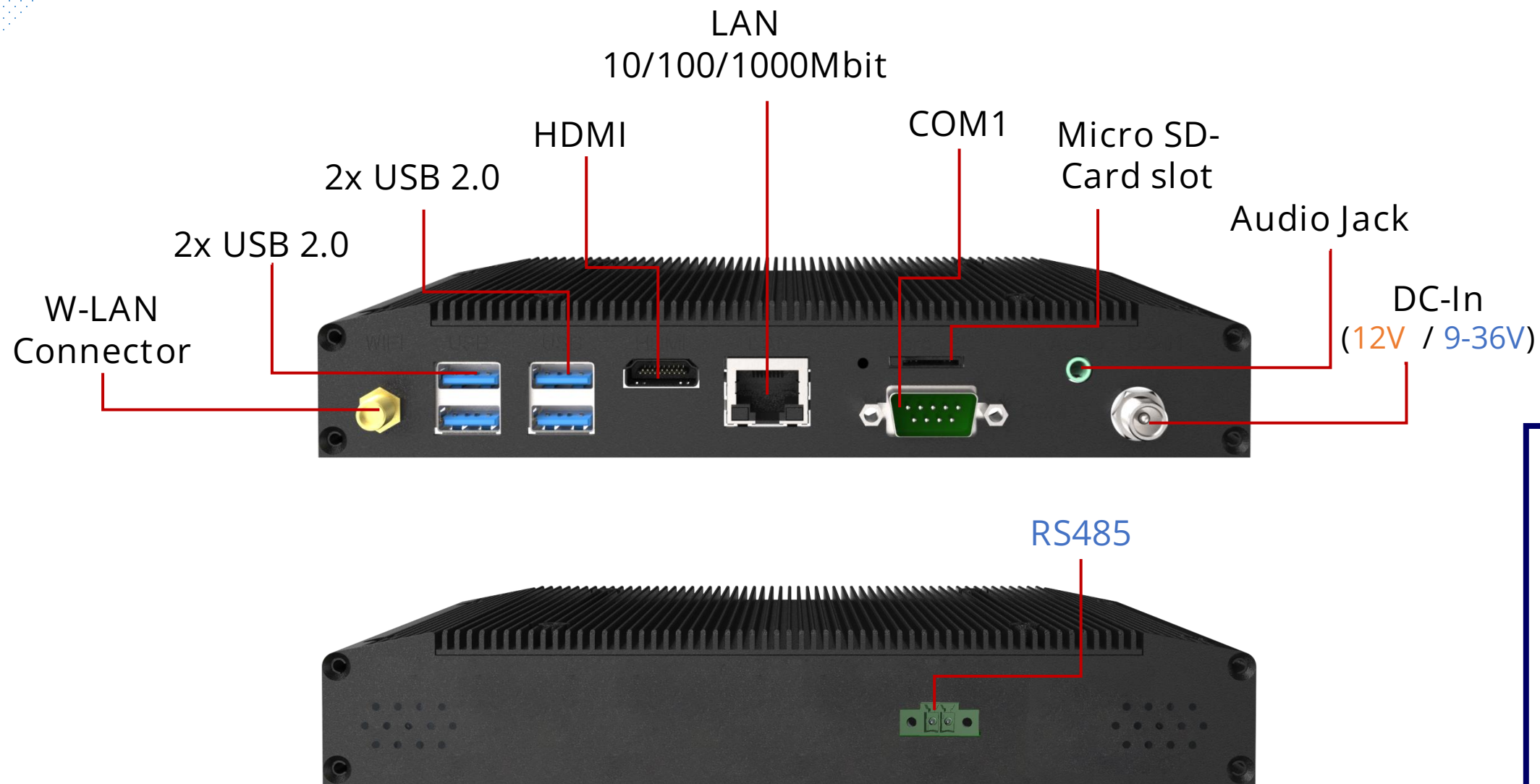
Linux Ubuntu



| | CPU | OS | Storage | Front-kit fit | Housing size | Connectors |
|--------------------|--------------------------|-------------------------------|------------------------|---------------|--------------------|---|
| Small case version | Intel® Core™ i3-1115G4E | Debian 12 | 8GB RAM | 7-32" | 190 x 126.2 x 32mm | COM1, 2xUSB 2.0, 2xUSB 3.0, HDMI, DisplayPort, LAN1, LAN 2, DC-In (12V), Audio Jack, SIM / SD Card, W-LAN, Power button |
| Large case version | i5-1145G7E i7-1185G7E | Windows 10/11 Linux Ubuntu | 120GB SSD 240GB SSD | | | |

*all units have VESA100 mounting holes

faytech's Back-kits: Amlogic A311D (Premium)



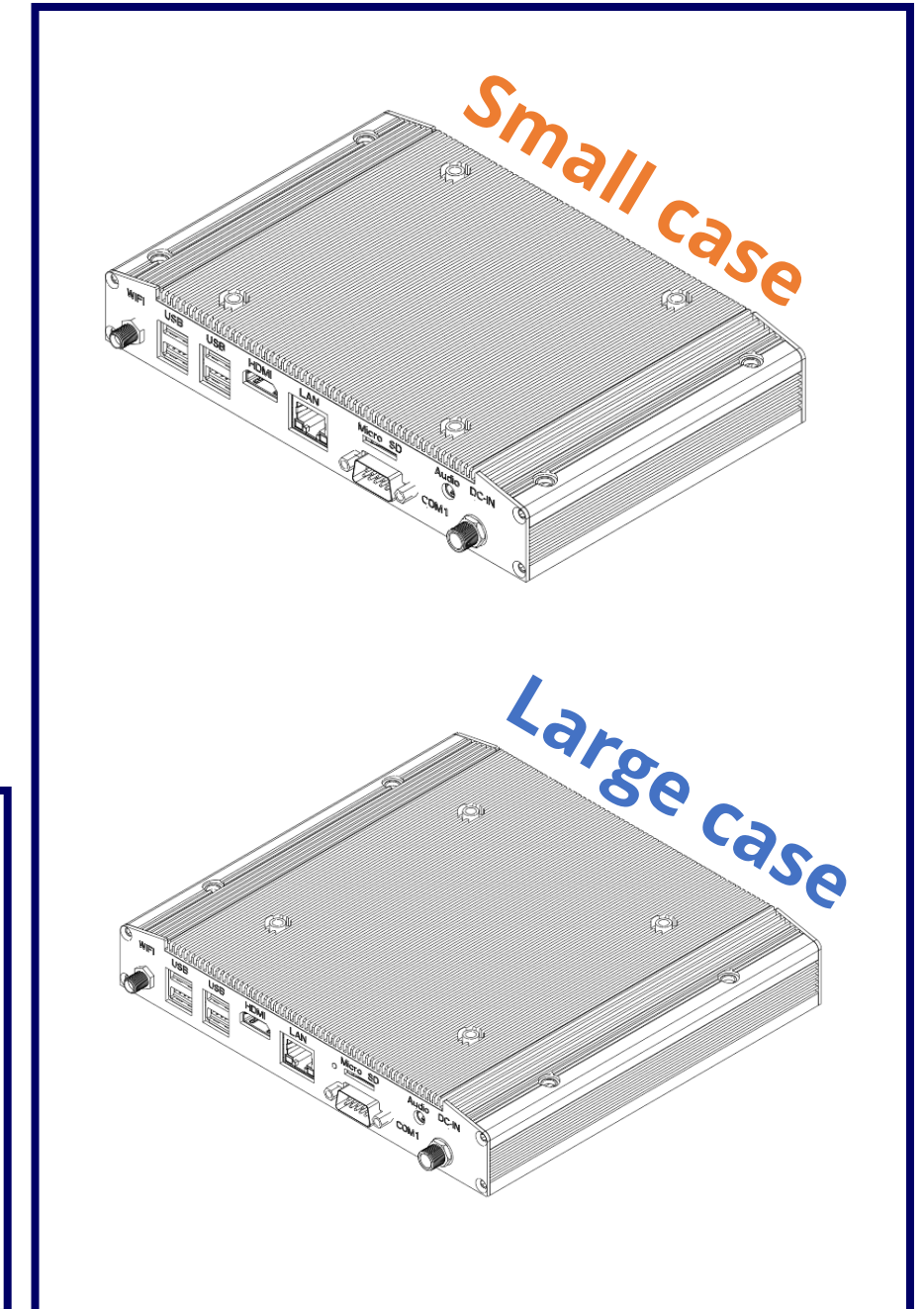
OS Support



Android 9



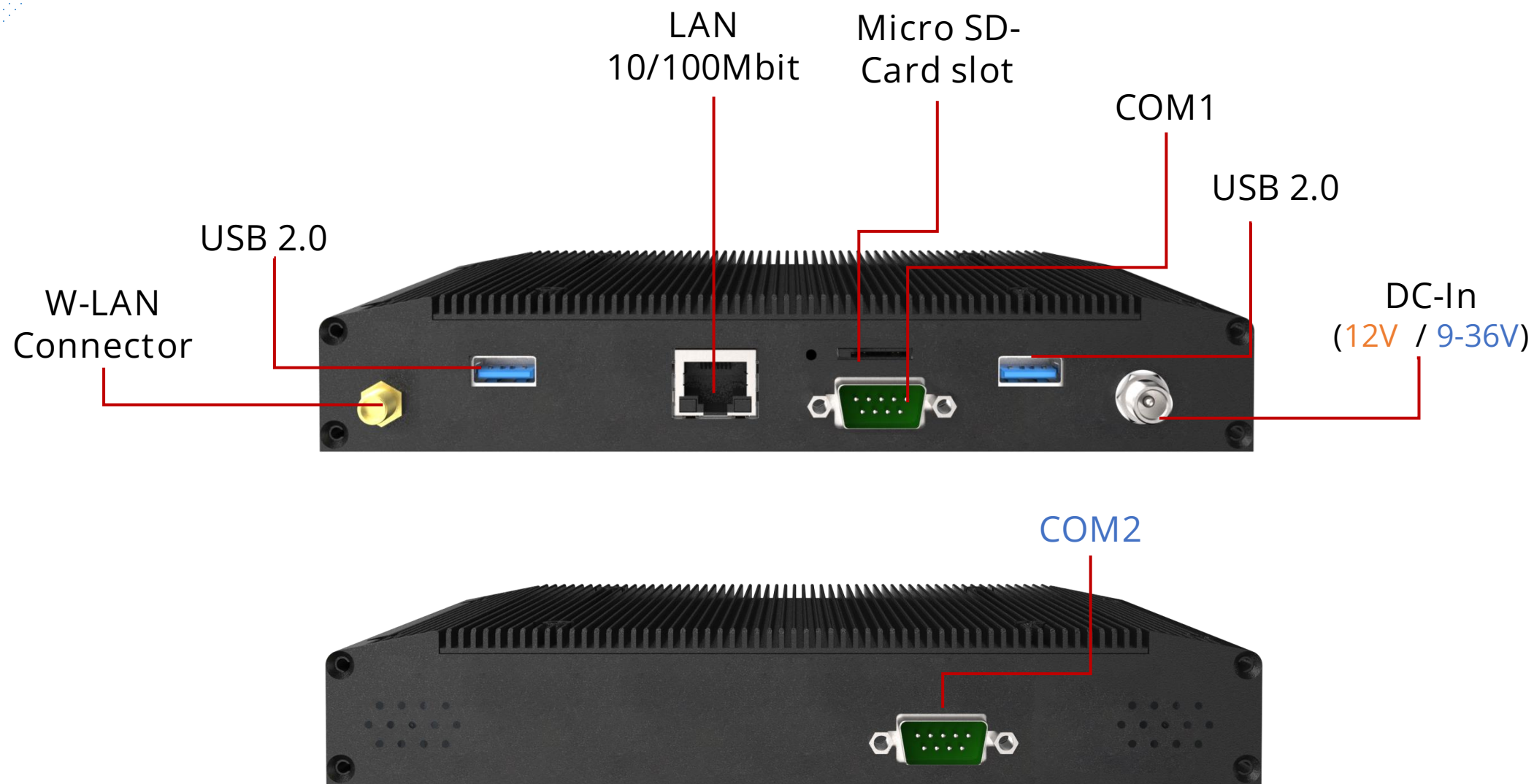
Linux +QT



| | CPU | OS | Storage | Front-kit fit | Housing size | Connectors |
|--------------------|------------------------------|-------------------------|-----------|---------------|--------------------|---|
| Small case version | A311D Quad-Core Cortex A73 + | Android 9 | 4GB RAM | 7-32" | 190 x 126.2 x 32mm | COM1, 4xUSB 2.0, HDMI, LAN, Micro-SD card slot, Audio Jack, W-LAN connector, DC-In (12V) |
| Large case version | Dual-Core Cortex A53 | Linux + QT Debian 12 | 64GB eMMC | 10-32" | 190 x 173.2 x 32mm | COM1, 4xUSB 2.0, HDMI, LAN, Micro-SD card slot, Audio Jack, W-LAN connector, DC-IN (9-36V), RS485 |

*all units have VESA100 mounting holes

faytech's Back-kits: Amlogic S905D3 (Basic)



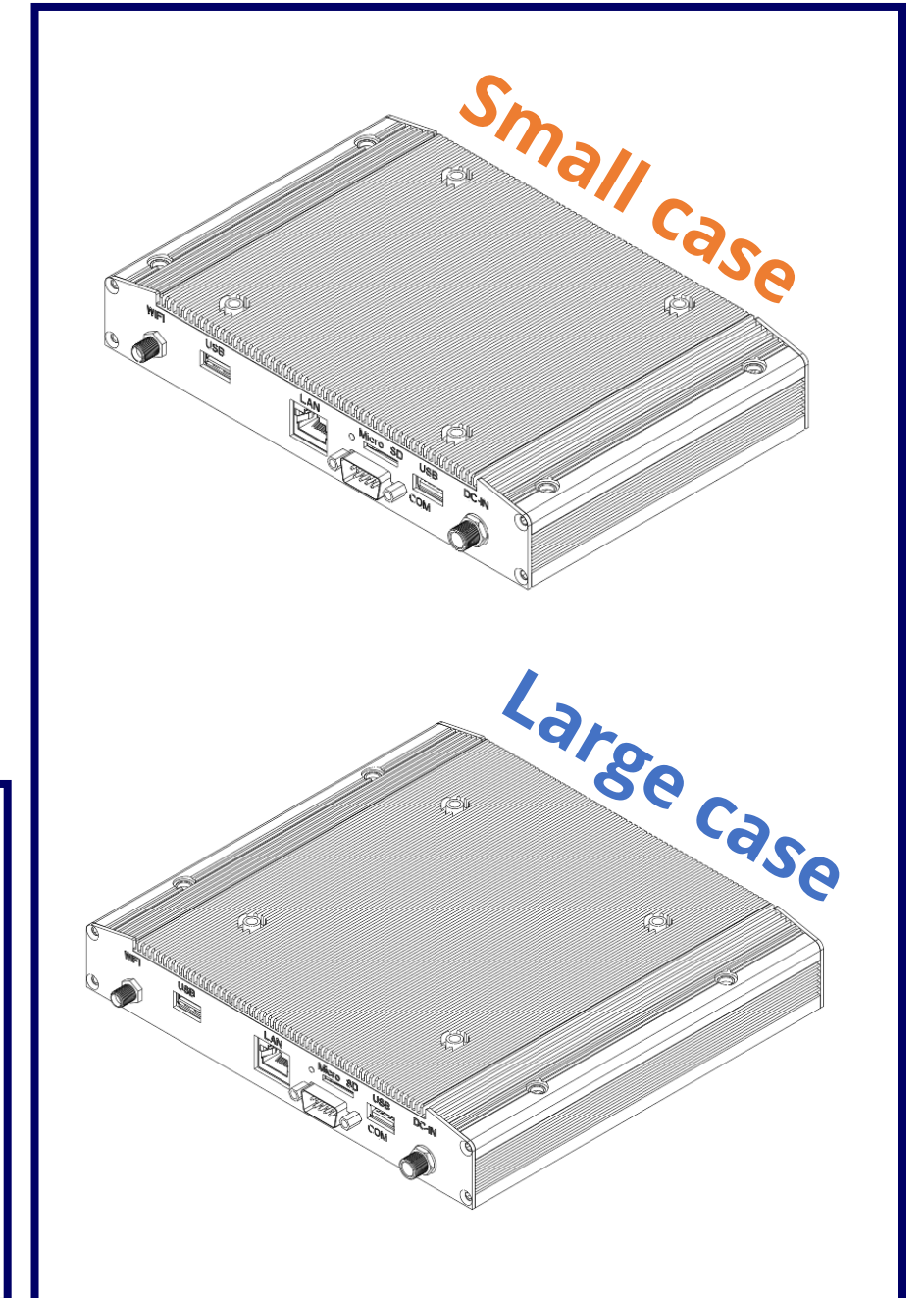
OS Support



Android 9



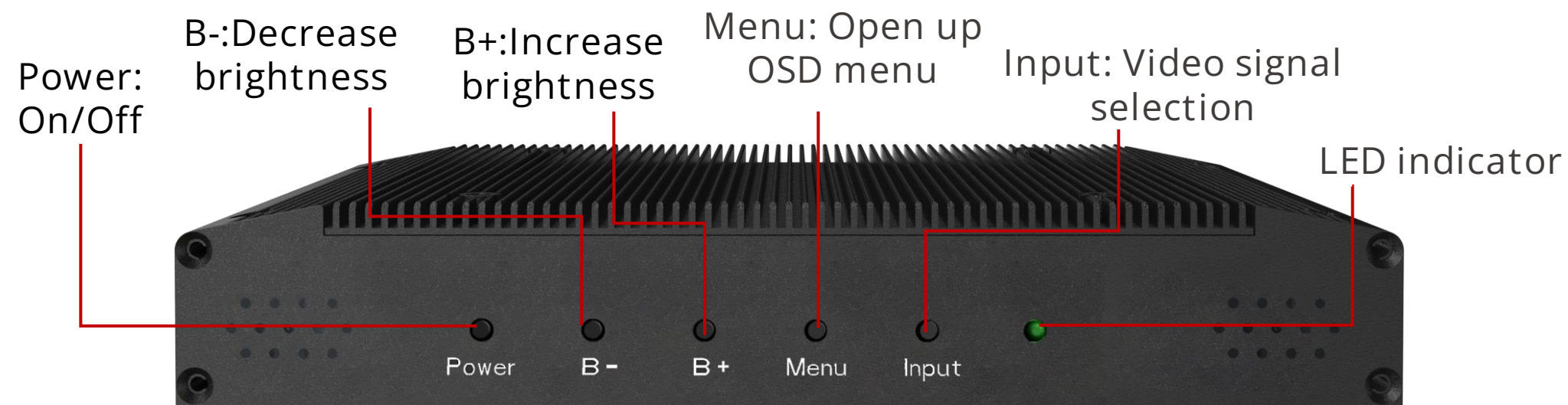
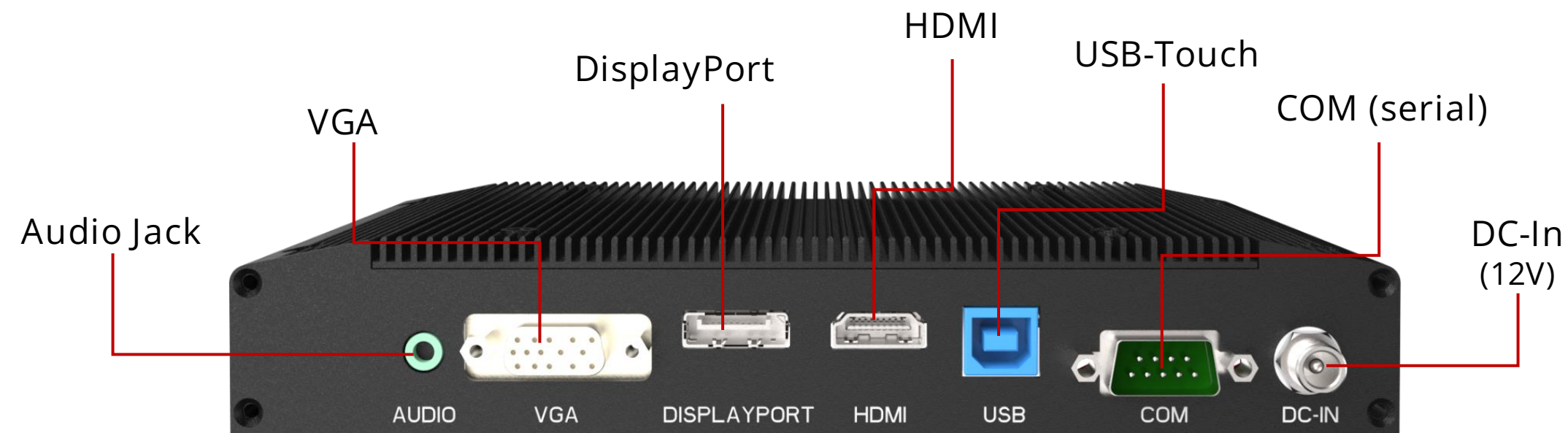
Linux +QT



| | CPU | OS | SSD / RAM | Front-kit fit | Housing size | Connectors |
|--------------------|-----------------------------------|-------------------------|-----------|---------------|--------------------|---|
| Small case version | S905D3 Quad-Core Cortex A53 | Android 9 | 2GB RAM | 7-32" | 190 x 126.2 x 32mm | COM1, 2xUSB 2.0, LAN, Micro-SD card slot, W-LAN connector, DC-In (12V) |
| Large case version | | Linux + QT Debian 12 | 64GB eMMC | 10-32" | 190 x 173.2 x 32mm | COM1, 2xUSB 2.0, LAN, Micro-SD card slot, W-LAN connector, DC-In (9-36V) , COM2 |

*all units have VESA100 mounting holes

faytech's Back-kits: Monitor

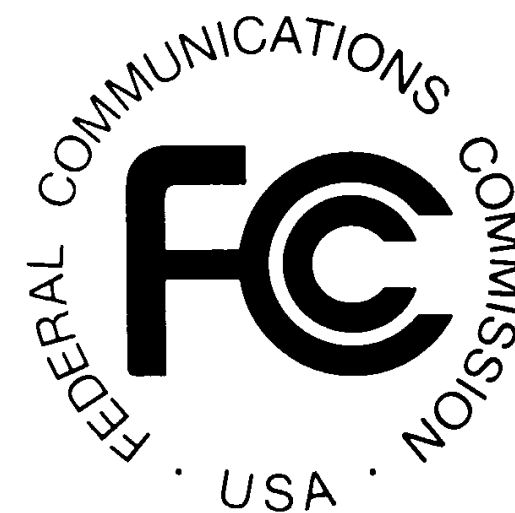
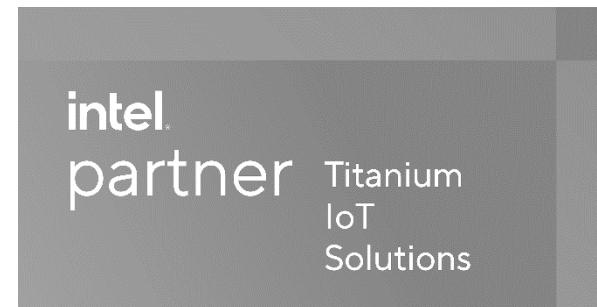


| | Board | Housing Size | Buttons & Indicators | Connectors |
|--------------------|----------|--------------------|---|--|
| Small case version | RTD2556T | 190 x 126.2 x 32mm | Power, B-, B+, Menu, Input, LED indicator | HDMI, DisplayPort, VGA, Audio Jack, USB-Touch, COM (serial), DC-In (12V) |

*all units have VESA100 mounting holes

Our Certifications

Besides our ISO9001:2015 and IATF 16949 conformity, we also have the following certifications and partnerships.



Capacitive Touch Technology Expert

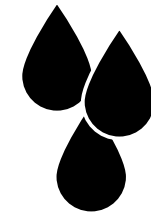


Expert in Capacitive multi-touch technology, with touch engineers solely focused on touch sensitivity and firmware fine-tuning.



Gloves Compatibility

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

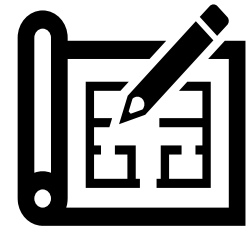


No Droplets Interference

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



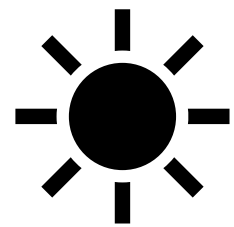
Our Advantages #1



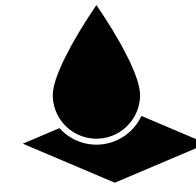
Own Mainboard Design
With own engineers in-house &
Partners in Taiwan & Germany



Own Touch Controller Design
Completely done in-house
(capacitive touch)



High Brightness Modification
Up to 2,500 nits (cd/m²)



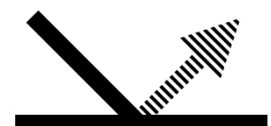
(True) Optical Bonding
In-house service, own formula /
development, fully automated with
dispensing patent technology



IP65 / IP67 / IP68
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

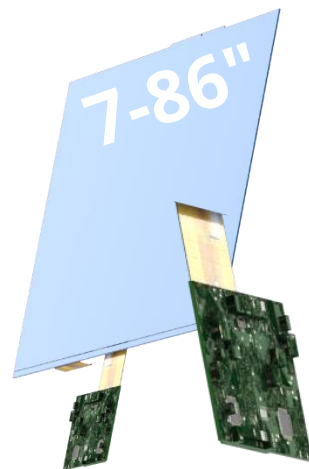
Our Advantages #2



Cover Glass
With coating technology
possibility (7-86")



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



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



Completed Touch-Kits
LCD panel + Touch Panel (incl.
touch controller)



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



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

About Pyramid

Pyramid is a leading developer and manufacturer of IT solutions for medium and large enterprises. With their 3 brands they offer a comprehensive suite of solutions, supplying numerous industries and markets, including entire digitalization flows with industrial PCs and servers, touch screen and kiosk technologies from a single source.

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
agile. creative. reliable. **PYRAMID**

the future is still open