Switch Alpha 12

[SA5-271]

Powerful fan-less 2-in-1 giving you the winning combination of productivity, portability and flexibility

This lightweight 2-in-1 uses a space-age heat pipe cooling system to cool its high-performance CPU, so you get powerful computing without ever hearing the whine of a fan. Sporting a powerful 6th generation Intel® Core™ processor, the Switch Alpha 12 is the perfect blend of productivity, portability and flexibility.

Which are its very key features?

- Travel freely with a lightweight device and turn easily the tablet into a laptop for different usage scenarios.
- The innovative fan-less Acer LiquidLoop™ cooling system supports high-performance Intel 6th gen Core i CPU, enabling the device to run cool, quiet and powerfully without overheating.
- The large 12-inch display makes editing, viewing and presenting easier. 2160 x 1440 resolution allows you to see everything in incredibly fine detail.
- The durable multi-position kickstand reclines to 165 degrees delivering almost any viewing angle.
- The thin and reversible USB 3.1 Type C port supports ultra-fast data transmission, high resolution display output and power delivery.
- Built-in hardware TPM for maximum data protection and WiGig support* for high performance wireless data transfer.
- The thin and light keyboard and its large trackpad delivers the same typing experience as on a notebook.

*The Acer ProDock Wirless is an optional accessory.

MOBILE & FLEXIBLE

- Travel freely with a lightweight device.
- Turn easily the tablet into a laptop and carry it without damaging the screen thanks to the keyboard cover.
- The durable multi-position kickstand reclines to 165 degrees delivering almost any viewing angle.
    - Adjustable
    - Rigid
    - Stable

COOL, QUIET & PRODUCTIVE

- The innovative fan-less LiquidLoop™ cooling system supports high-performance Intel Core i CPU, enabling the device to run cool, quiet and powerfully without overheating.
- The powerful Intel® 6th gen Core™ i (SKL-U) CPU distinguishes the Switch Alpha 12 from its competitors and helps you be more productive.
- The thin and reversible USB 3.1 Type C port supports ultra-fast data transmission, high resolution display output and power delivery.
- The thin and light keyboard and its large trackpad delivers the same typing experience as on a notebook.

IMPRESSIVE SIGHT & SOUND

- The large 12-inch display makes editing, viewing and presenting easier. 2160 x 1440 resolution allows you to see everything in incredibly fine detail.
- Two front-facing speakers deliver high volume levels and an immersive sound.

IDEAL FOR PROFESSIONALS[1]

- The built-in TPM hardware chip ensures a safe computing in all environments.
- The optional Acer ProDock Wirless[2] enables high performance WiGig wireless data transfer.
- Windows 10 Pro[1] for professional-grade software.
- Jot down meeting minutes, class notes, and idea sketches on the tablet with the optional Acer Active Pen[2].

[1]Commercial SKUs only
[2]Optional Accessory

User benefits demonstrated

MOBILE & FLEXIBLE

COOL, QUIET &
PRODUCTIVE

IMPRESSIVE SIGHT &
SOUND

IDEAL FOR
PROFESSIONALS

Slim and Light

— 9.85 mm —

900 g —

— 5.85 mm —

350 g

MOBILE & FLEXIBLE

COOL, QUIET &
PRODUCTIVE

IMPRESSIVE SIGHT &
SOUND

IDEAL FOR
PROFESSIONALS

Multi-position kickstand | Adjustable

The kickstand can be adjusted almost up to 165 degree, allowing you to work just as comfortably on your lap as at your desk.


Design story

The Switch Alpha 12 inherited the design language from the Aspire R 13. The U frame kickstand and the small chamfer are nicely-crafted to create a nimble and elegant image.

The top cover is made of aluminum and is finished in an elegant anodized hairline brush which gives to the eyes a great concerto, and a silky tactile feedback. It is graceful, irreplaceable, and unforgettable.

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Multi-position kickstand | Rigid

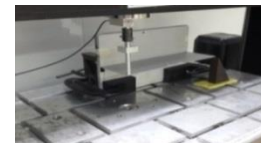The U frame kickstand is rigid and sturdy enough to withstand the frequent folding and unfolding.
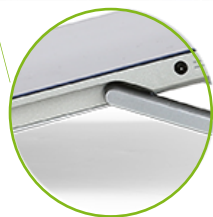
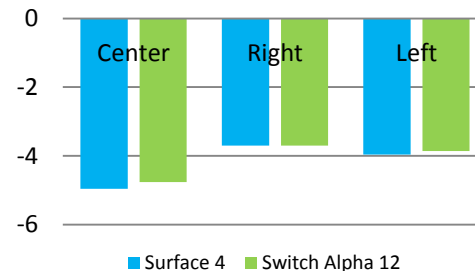The stopper design prevents accidental force.

Rigidity Lab Test

Switch Alpha 12's kickstand is **4% more** rigid than Surface Pro 4.

Deformation level in rigidity test

Center | Right | Left

0
-2
-4
-6

■ Surface 4 ■ Switch Alpha 12

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Multi-position kickstand | Stable

The anti-slip rubber around the U-frame kickstand can withstand high touch force and hold the device stably without moving backwards.

Anti-slip rubber

Touch Force Test

Switch Alpha 12 withstands a higher touch force.

Touch Force

Desk angle

Touch Force

Desk angle

Desk angle	Product	110°	115°	120°	125°	130°	135°	140°	145°
Touch force	Switch Alpha 12	190g	250g	320g	380g	500g	350g	290g	250g
	Surface Pro 4	100g	126g	135g	140g	140g	155	195g	220g

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Fan-less design running Intel® Core™ i

The innovative Acer LiquidLoop™ cooling system is the first fan-less design capable of supporting a high-performance Intel® Core™ i processor to enable the device to run powerfully without overheating.
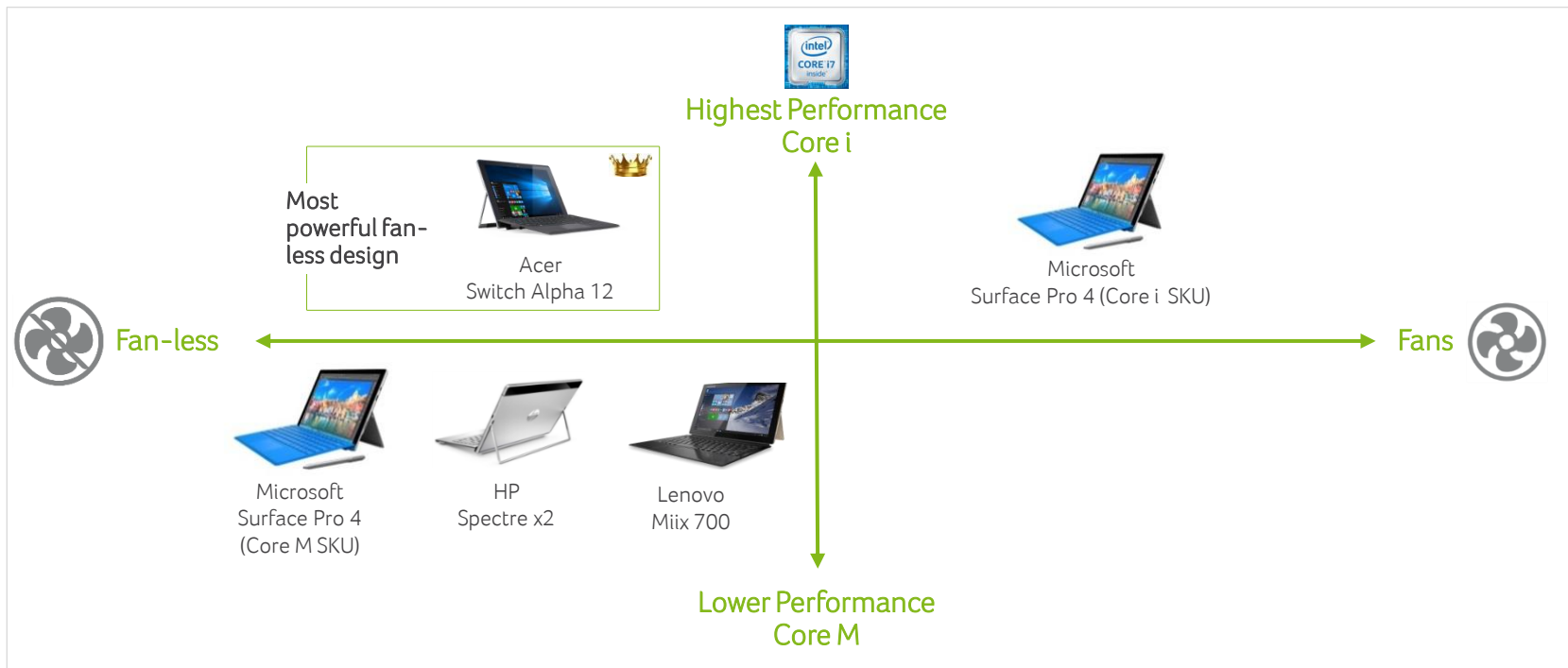
The fan-less LiquidLoop™ cooling features:

- More sustainable thermal performance, which results in a more sustainable system performance.
- Quiet
- No dust issue
- The heat is released evenly throughout the rear cover without exhausting hot air like fans do.

Heat-driven coolant circulation.

Liquid in the sealed loop gasifies as it passes over and absorbs processor heat, producing circulating force.

As the gas moves away from the processor it cools and re-liquefies repeating the process.
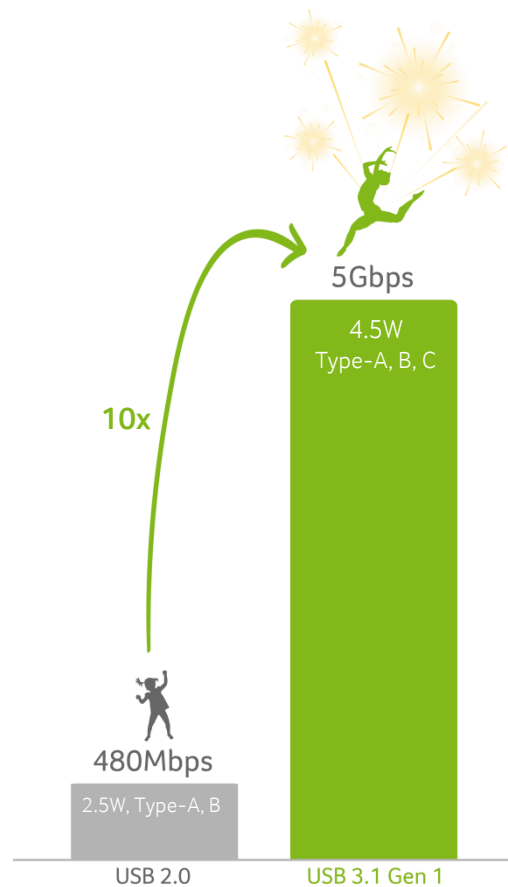
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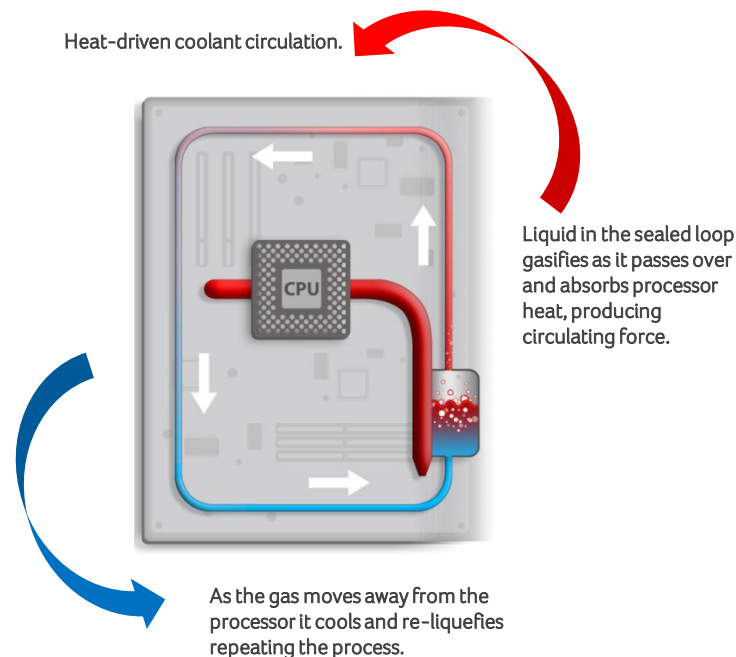
Laptop class power

The powerful Intel® 6th gen Core™ i (SKL-U) CPU distinguishes the Switch Alpha 12 from its competitors (coming either with an Intel® Core™ M CPU or a fan design

Highest Performance Core i

Most powerful fan-less design

Acer Switch Alpha 12

Microsoft Surface Pro 4 (Core i SKU)

Fan-less

Fans

Microsoft Surface Pro 4 (Core M SKU)

HP Spectre x2

Lenovo Miix 700

Lower Performance Core M

Laptop class power

The thin and reversible USB 3.1 Type-C port combines multiple protocols in a single cable, putting just about everything you need in a port all in one place. It features:

- Data transfer rates up to 5Gbps
- Video output
- Power delivery capabilities of up to 4.5W

Data transfer

Video

Power delivery

10x

5Gbps

4.5W
Type-A, B, C

480Mbps

2.5W, Type-A, B

USB 2.0

USB 3.1 Gen 1

Laptop class keyboard

The slim and light keyboard has all the utility of a full-size keyboard which delivers the same comfortable and efficient typing experience you expect from a laptop.

- Widely spaced island-style keys avoid miss typing.

- 1.4 mm key depth for great travel.

- A large track pad supporting Precision Touch functions.

- When attached to the tablet, the keyboard can be adjusted to an ergonomic angle for comfortable typing.
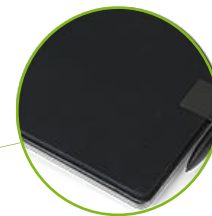
Ergonomic angle for comfortable typing

Full size keyboard & large touchpad

Ideal screen protection once the keyboard is turned down on the tablet

MOBILE & FLEXIBLE

COOL, QUIET &
PRODUCTIVE

IMPRESSIVE SIGHT &
SOUND

IDEAL FOR
PROFESSIONALS

Impressive sight & sound

- The 12-inch large display makes editing, creating and presenting easier.

- The display with 2160 x 1440 pixel resolutions allow you to see everything you do in incredibly fine detail .

- Two speakers placed in front provide higher volume levels and more immersive stereo sound for music and video enjoyment.

2160 x 1440
resolution

2 front facing
speakers

1440 px

2160 px

WiGig Support[1]

Connect to the Acer ProDock Wirless[1] to enable high speed WiGig data transfer and a tangle-free working space.

Acer ProDock Wireless[1] features:

- 60GHz band to deliver speeds of up to 4.6Gbps.

- Multi-band support: 802.11ac and 802.11ad can work in parallel .

- Multiple users support

- Multiple ports support, including DisplayPort, VGA, HDMI, RJ-45, USB and audio combo ports.

USB Type-C

140 mm

108 mm

27 mm

USB 3.0

Audio combo port

USB 3.0

HDMI

Display Port

VGA

RJ-45

[1]Acer ProDock Wireless is optional accessory
When all three cables types are all plugged into the dock, Acer ProDock Wireless can only support HDMI and DisplayPort.

Ready for Active Pen[1]

Jot down meeting minutes, class notes, and idea sketches on the tablet with Acer Active Pen[1] which features:

- High Report Rate: Minimizes the delay, making writing and drawing as fluid and precise as on paper.

- Palm Rejection: Clearly distinguishes between your palm and the pen's tip, ensuring the most comfortable posture without the annoyance of your palm triggering a response.

- Pressure sensitivity: With 256 levels of pressure sensitivity, Acer Active Pen measures a range of forces, meaning you can push harder to draw thicker, darker lines, or use a very gentle touch to create hair-thin lines.

- Windows 10 certified.

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[1]optional accessory

I/O ports & technical specifications

I/O Ports

2MP Front Webcam

Combo Audio Jack

USB 3.0

USB Type-C

DC-in jack

12", 2160 x 1440 IPS

Touchpad

Full-size Keyboard

5MP Rear Camera

Power Key

Volume Key

Windows Key

C: Silver; M: Aluminum;
F: Hairline-brush, anodized

Anti-slip Rubber

U-frame Kickstand

Main Specs

Fan-less & Acer LiquidLoop™

Windows 10 Home or Windows 10 Pro

Intel® Skylake U Core™ i3/i5/i7 processor

12'' (2160 x 1440) + IPS[1] + Zero Air Gap

96/128/256/512 GB

802.11ac + optional WiGig support (802.11ad only (i5 &i7))

USB-C 3.1

Supports Acer Active Pen

Front: 2 MP + Rear: 5 MP

Up to 8 hours battery life
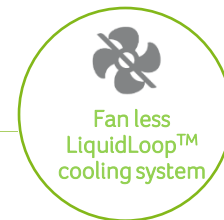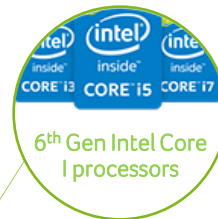
Office version

(30 days free trial)

What's new

- New form factor rotates 165 degrees
- Fan-less LiquidLoop™ cooling system
- Built-in TPM chip

Color Option

[1] All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products.

Product Highlights

6th Gen Intel Core I processors

2160x1440 resolution

Fan less LiquidLoop™ cooling system

Light & Thin

Reversible USB-C 3.1

Multi-position kickstand

Specifications			
Operating System	Windows 10 Pro 64-bit Windows 10 Home 64-bit	Input & Output	• USB 3.0 x1 Type A • USB 3.1 type C Gen1 supporting high-res display output & power delivery • Micro SD™ card (SDXC) – up to 128 GB
Display	12", QHD 2160 x 1440 IPS; 3:2 aspect ratio		
Processor	Intel 6th generation Core I CPU (Skylake U) Intel® CoreTM i7-6500U / i5-6200U / i3-6100U processor	Power & Battery	• Capacity: 37 Wh • Battery life: 8 hours
Memory	4GB / 8 GB LPDDR3		
Storage	SSD 96GB up to 512 GB		
Audio	2 x speakers	Dimensions & Weight	Dimensions: • 292 x 201.4 x 9.5 mm (tablet only) • 292 x 201.4 x 15.85 mm (w/ KB) Weight: • 900 g (tablet only) • 1250 g (w/ KB)
Camera	• Front: 2 MP • Rear: 5 MP		
Wireless & Networking	• WiFi 802.11 ac • Optional WiGig support (802.11ad only (i5 & i7) • 2x2 MU-MIMO technology • Bluetooth® 4.0	Options & Accessories	Acer Active Pen Acer ProDock Wireless

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Note: Specifications vary depending on region. Please refer to the official specification on Infobank.

Thank you