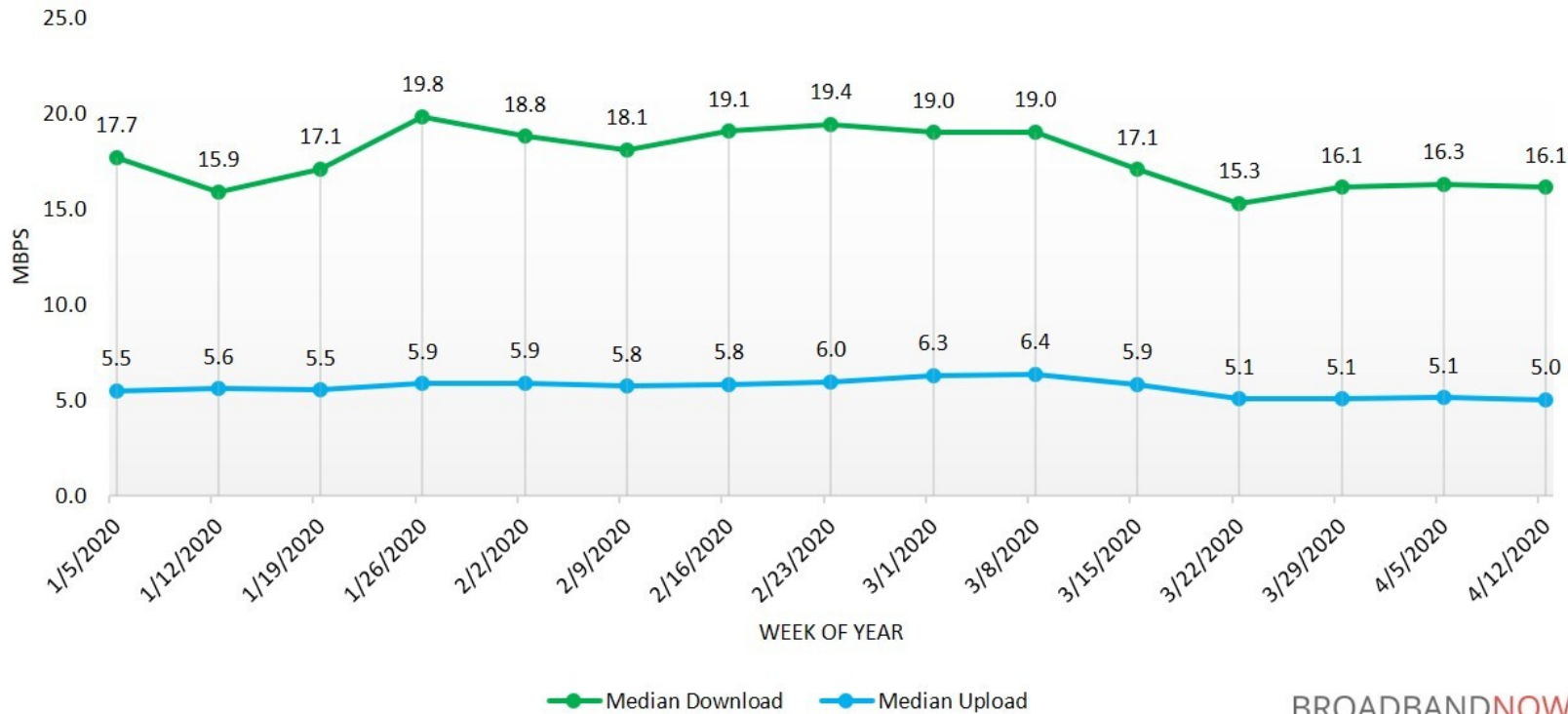# PWC G8
Gals@Technology

What System Should I Buy?

May 18, 2020

Current Topics

Rural Download and Upload Speeds by Week of Year

- Overall data volume across the Internet has increased 19% compared to pre-COVID levels
- Internet usage patterns have stabilized

Current Topics

- Face masks are a major challenge to Facial Recognition technology

- Apple updating FaceID to account for face masks in next version of iOS

- Many are moving to algorithms that focus on eyes and eyebrows

- Change also advantageous for people using face coverings for religious purposes

Current Topics

- Contract tracing with technology has not met with acceptance in large US cities
- Even progressing states like California are going to hire massive number of contract tracers – current plan is 20,000+

Current Topics

- Ford Motor Company testing proximity detectors to reopen factory production
- Samsung device uses Bluetooth short-wave and low-power technology
- Near real-time vibration with alerts to supervisors, etc.
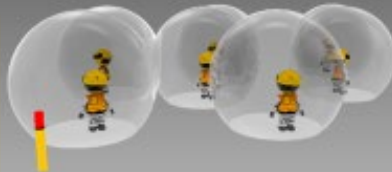
Current Topics

How can **EGOpro** Social Distancing help
malls, business companies, public offices, or close proximity manufacturing?

PLUS VERSION | **MODULE 2 :** ALERT MANAGEMENT

ALARMS
BE EITHER VISUAL AND/OR SOUND
THEN SENDS ALERT TO SECURITY
(txt, email)

NO GATHERINGS:
The system signals when the maximum number of people
allowed in a limited (zoned) area has been exceeded.

TIME LIMITS:
The system signals when someone stays in the limited (zoned) area
longer than the time allowed.

DISTANCE NOT RESPECTED
Measures the distance between people and warns the users when
they get too close to one another through vibration of the tag.

Covid-19 | EGOpro Social Distancing

AME
NCED MICROWAVE ENGINEERING

- Indiana company Advance Industrial Marketing (AIM) has RFID solution

Work At Home Has Changed The Landscape (maybe forever)

- Traditional "PC" sales continue to decline
- Laptop demand up and there are limited supplies
- Parents working at home has increased demand to the "kids' systems"
- Raspberry Pi sales had skyrocketed (very techie stuff)
- Chromebook sales have increased
- All this leads to employers pushing BYOD (Bring Your Own Device)
- Security issues are HUGE but there is no time to address that now. The future price will be significant, in my opinion.

Your "Next System"

- Special purpose systems such as Chromebook if you are willing to work within the limitations
- Apple iPad Pro
- Microsoft Surface Pro

Acer Chromebook R13

- 13.22" x 9.17" x .82"
- 13.3", 1920x1080 screen
- $400-ish
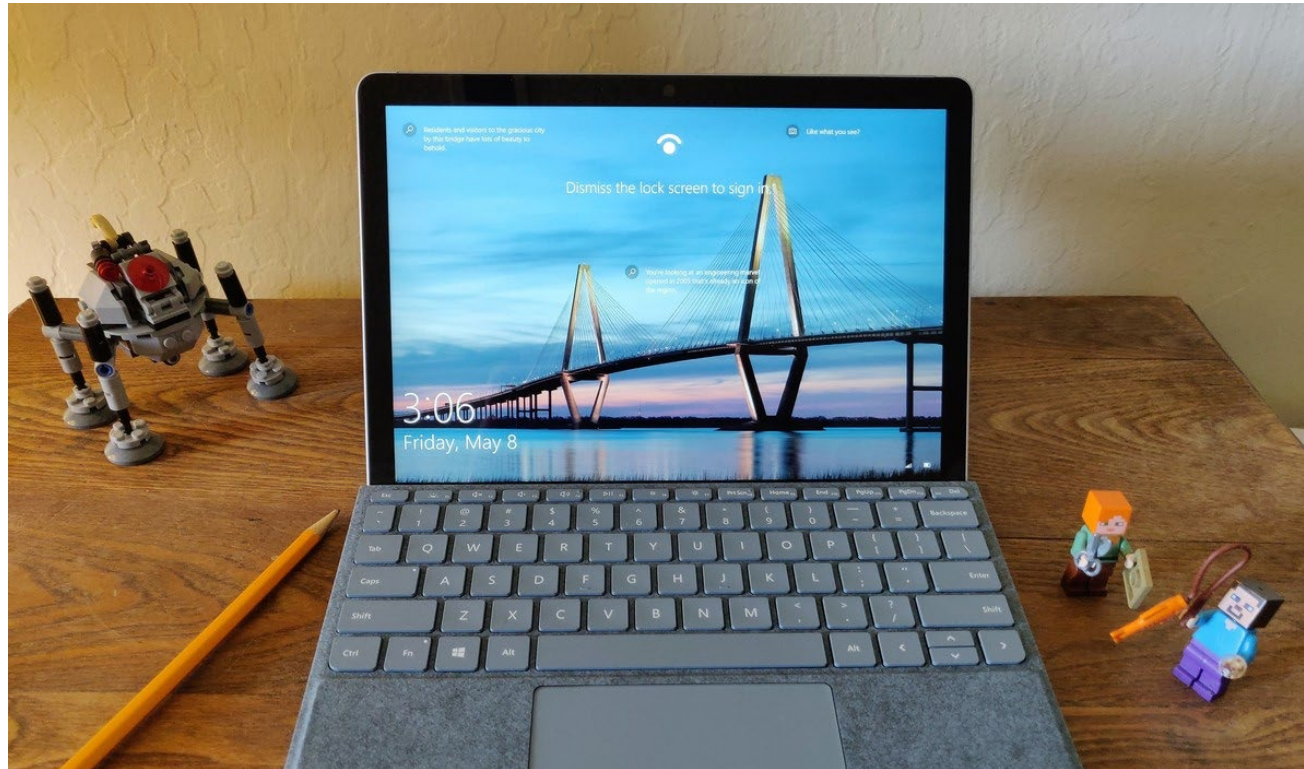 (less expensive Chromebooks available at $200-ish)

iPad Pro 11 2020

- Keyboard and trackpad (Apple "Magic Keyboard", $300-$350)

- Looks a lot like a Mac!

- Brydge keyboard less expensive and more capable ($200 - $230)

iPad Pro 11 2020

- 11.05" x 8.46" x 0.23", 1.41lb
- 12.9", 2048x2732 pixel screen, 4:3 ratio
- 4 speakers, full stereo
- Works with Apple Pencil
- 802.11a/b/g/n/ac/ax, dual band Wi-fi (Wi-fi 6)
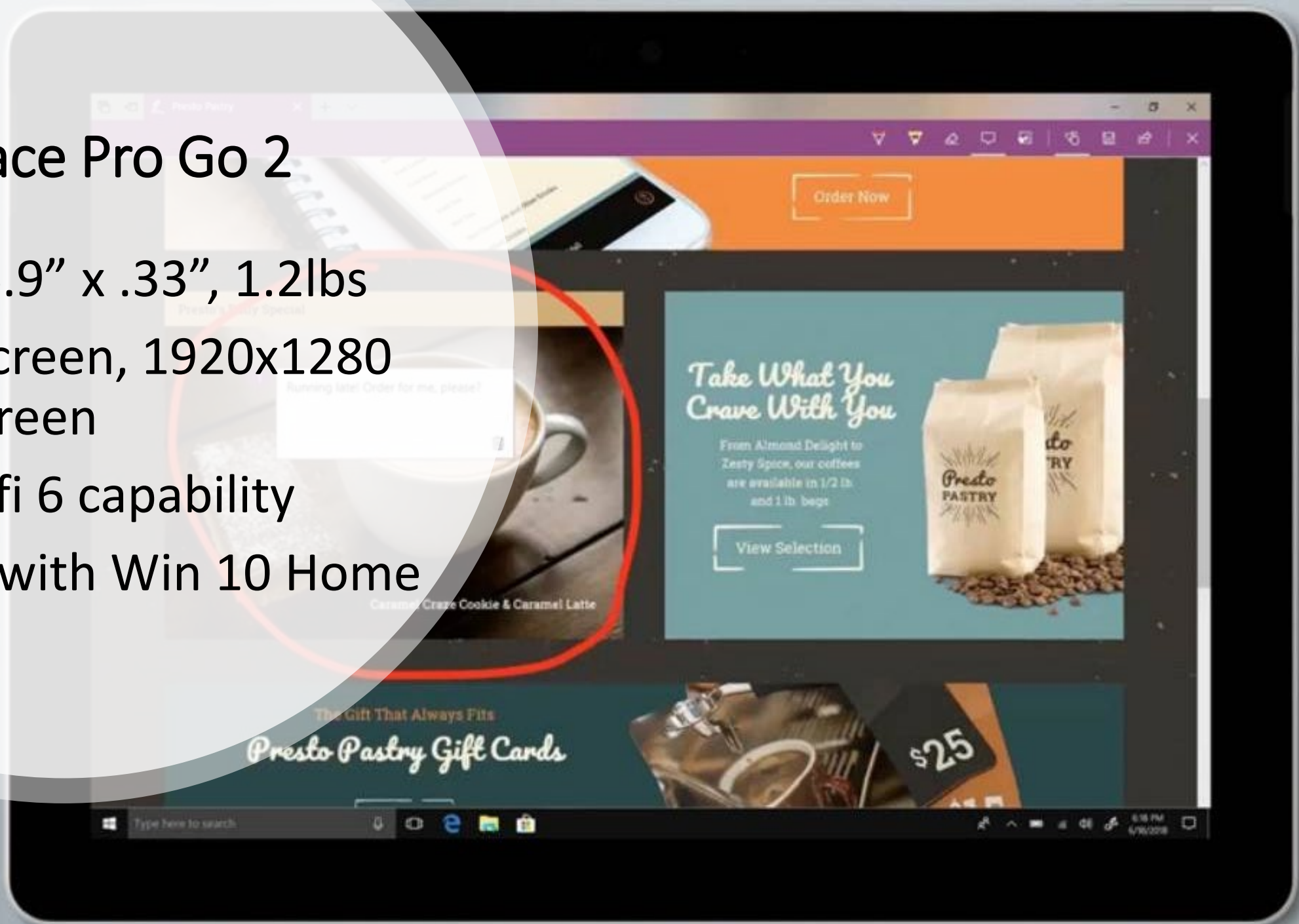- $800-$900-ish
  (lots of deals available)

Microsoft Surface Go 2

- Larger display for Surface
- Longer battery life
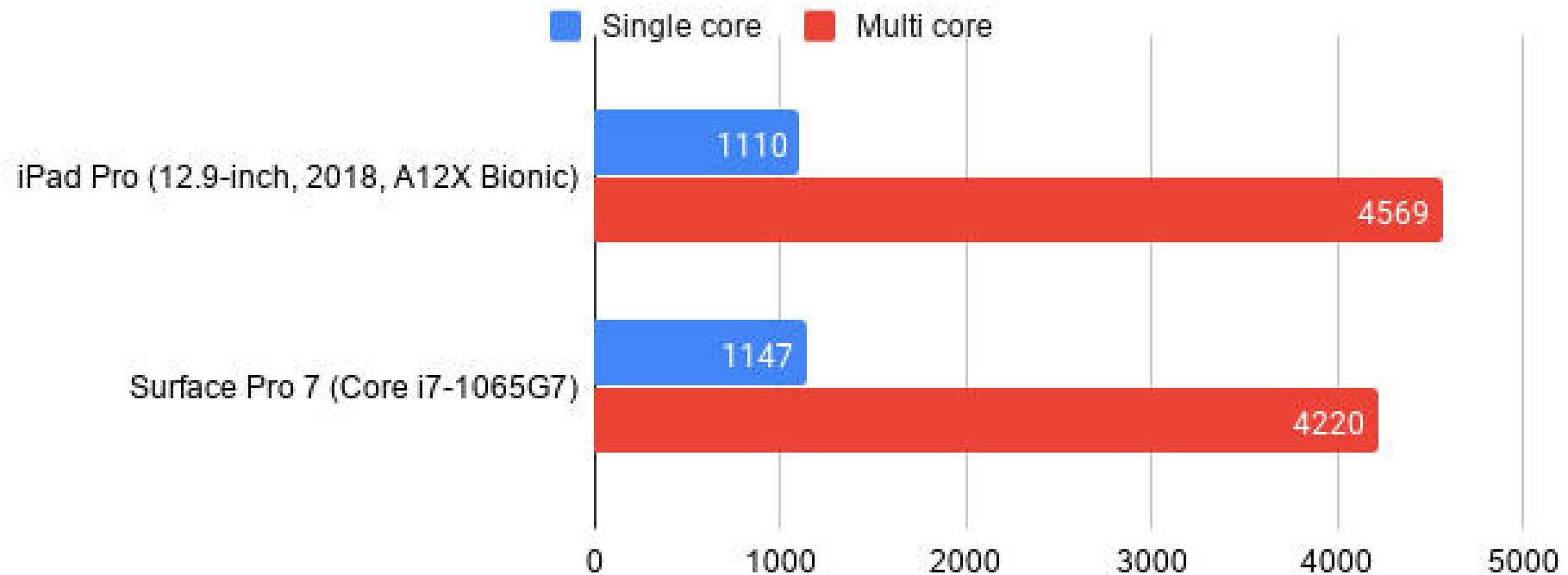- $400-$500-ish
  (lots of deals available)

Surface Pro Go 2

- 9.7" x 6.9" x .33", 1.2lbs
- 10.5" screen, 1920x1280 pixel screen
- Full wi-fi 6 capability
- Comes with Win 10 Home

Performance Comparison

Geekbench 5 CPU test

■ Single core ■ Multi core

iPad Pro (12.9-inch, 2018, A12X Bionic)
- 1110
- 4569

Surface Pro 7 (Core i7-1065G7)
- 1147
- 4220

0   1000   2000   3000   4000   5000

	iPad Pro (12.9-inch, 2020)	**Surface Pro 7**
Announced	18/03/2020	02/10/2019
Entry-level price (tablet only)	$999 / £969 (128GB, Wi-Fi)	$749 / £799 (Core i3, 4GB, 128GB)
Top-end price (tablet only)	$1,649 / £1,619 (1TB, Wi-Fi + Cellular)	$2,299 / £2,249 (Core i7, 16GB, 1TB)
Operating system	iPadOS 13.4	Windows 10 Home (Windows 10 Pro on the 'for Business' model)
Productivity software	iWork (Pages, Numbers, Keynote)	Microsoft Office 365 (30-day trial)

	iPad Pro (12.9-inch, 2020)	**Surface Pro 7**
DISPLAY		
Display size	12.9 inches	12.3 inches
Display technology	IPS LCD (Liquid Retina)	IPS LCD (PixelSense)
Display resolution & pixel density	2,732 x 2,048 (265ppi)	2,736 x 1,824 (267ppi)
Aspect ratio	4:3	3:2
Refresh rate (max)	120Hz	60Hz
Refresh rate auto-adjustment	ProMotion	no
Display brightness (max)	600 nits	400 nits

	iPad Pro (12.9-inch, 2020)	Surface Pro 7
Tablet (Wi-fi only)	$1,099 (A12Z Bionic, 6GB, 256GB)	$1,499 (Core i7, 16GB, 256GB)
Keyboard	$349 (Magic Keyboard for iPad Pro)	$160 (Signature Type Cover)
Stylus	$129 (Apple Pencil)	$100 (Surface Pen)
Port adapters	$28 (USB-C to USB, USB-C to 3.5mm Headphone Jack)	
Total	**$1,605**	**$1,759**