

RAISE3D CATALOGUE 2021

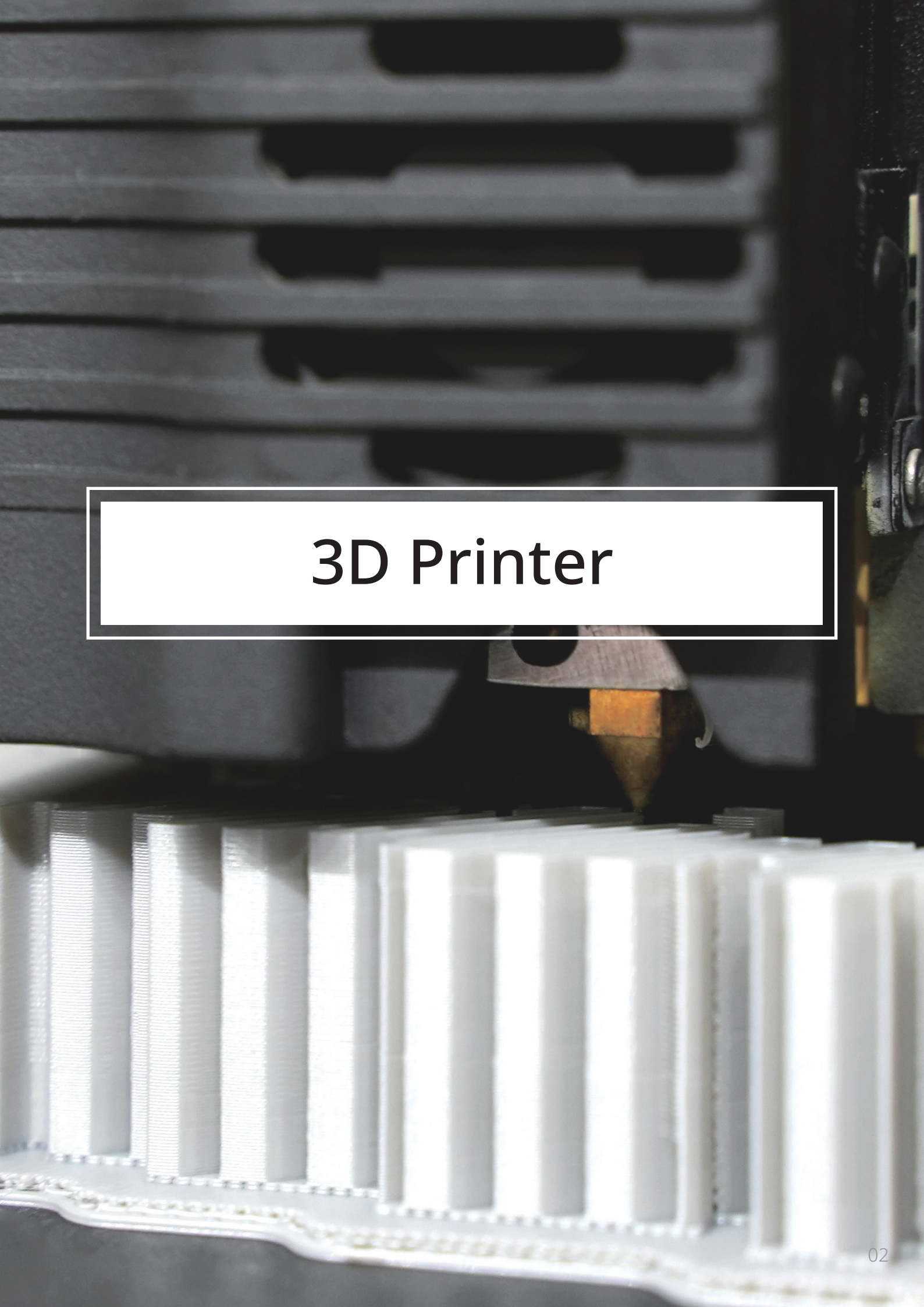
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3D Printer

Raise3D E2



Build Volume (W × D × H)

- Single Extruder Print

330 × 240 × 240 mm

- Dual Extruder Print

295 × 240 × 240 mm

Filament Diameter
1.75 mm

Max Build Plate Temp.
110°C

Max Nozzle Temp.
300°C

Layer Height
0.02-0.25 mm

Nozzle Diameter
0.4 mm (Default)
0.2/ 0.6/ 0.8/ 1.0 mm
(Available)

Supported Materials

PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber infused/
Carbon Fiber infused/ Metal Fill/ Wood Fill/ OFP Certified Third-Party Filaments



Mirror Mode



Duplication Mode



Auto Bed Leveling



Industry First
Video-Assisted
Offset Calibration System



Safety Features



Power Saving Button



Flexible Build Plate



Variety of Compatible
Materials

Raise3D E2CF



Build Volume (W × D × H)

- Single Extruder Print
330 × 240 × 240 mm

- Dual Extruder Print
295 × 240 × 240 mm

Filament Diameter
1.75 mm

Max Build Plate Temp.
110°C

Max Nozzle Temp.
300°C

Layer Height
0.1-0.25 mm

Nozzle Diameter
0.4 mm (Default)
0.6/ 0.8 mm (Available)

Supported Materials
Raise3D Industrial PA12 CF, Raise3D Industrial PA12 CF Support,
(PPA CF, PPS CF and PET CF Coming soon)



Nozzles with High
Durability



Dual Direct Drive Extrusion
System



Engineered for Printing
Carbon Fiber
Reinforced Filament



Raise3D Industrial PA12
CF Support Filament



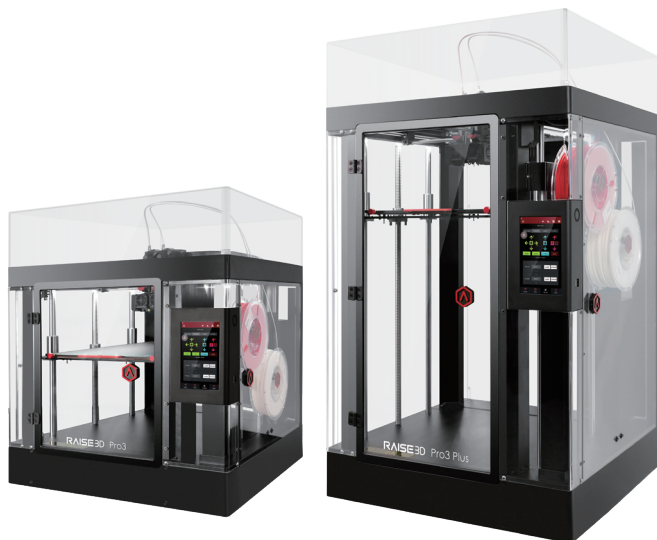
Raise3D Filament Dry Box



ideaMaker Slicing
Profiles



Raise3D Pro3 Series



Build Volume (W × D × H)

- Single Extruder Print

300 × 300 × 300 mm
(Pro3)

300 × 300 × 605 mm
(Pro3 Plus)

- Dual Extruder Print

255 × 300 × 300 mm
(Pro3)

255 × 300 × 605 mm
(Pro3 Plus)

Filament Diameter
1.75 mm

Max Build Plate Temp.
120°C

Max Nozzle Temp.
300°C

Layer Height
0.01-0.25 mm

Nozzle Diameter
0.4 mm (Default)
0.2/ 0.6/ 0.8/ 1.0 mm
(Available)

Supported Materials

PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber infused/
Carbon Fiber infused/ Metal Fill/ Wood Fill/ OFP Certified Third-Party Filaments



Large Build Volume



Flexible Build Plate



Auto Bed Leveling



Dual Extruder



EVE Smart Assistant



Air Flow Manager



HEPA Filter



Modular Extruder
Design

Raise3D Pro2 Series



Build Volume (W × D × H)

- Single Extruder Print

305 × 305 × 300 mm
(Pro2)

305 × 305 × 605 mm
(Pro2 Plus)

- Dual Extruder Print

280 × 305 × 300 mm
(Pro2)

280 × 305 × 605 mm
(Pro2 Plus)

Filament Diameter
1.75 mm

Max Build Plate Temp.
110°C

Max Nozzle Temp.
300°C

Layer Height
0.01-0.25 mm

Nozzle Diameter
0.4 mm (Default)
0.2/ 0.6/ 0.8/ 1.0 mm
(Available)

Supported Materials

PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber infused/
Carbon Fiber infused/ Metal Fill/ Wood Fill/ OFP Certified Third-Party Filaments



Massive Build Volume



Dual Extruder



0.01 mm Minimum
Layer Height



7-inch Touch Screen

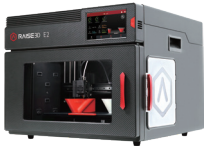
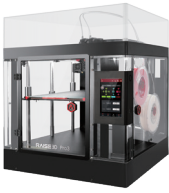
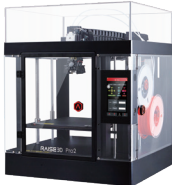


Resume Print
Camera/ HEPA Air Filtration



Diverse Filament

Raise3D 3D Printers Comparison Sheet

Categories		E2CF	E2	Pro3	Pro3 Plus	Pro2	Pro2 Plus
							
Build Volume (W × D × H)	Single Extruder	13 × 9.4 × 9.4 inch/ 330 × 240 × 240 mm	13.0 × 9.4 × 9.4 inch/ 330 × 240 × 240 mm	11.8 × 11.8 × 11.8 in/ 300 × 300 × 300 mm	11.8 × 11.8 × 23.8 in/ 300 × 300 × 605 mm	12 × 12 × 11.8 inch/ 305 × 305 × 300 mm	12 × 12 × 23.8 inch/ 305 × 305 × 605 mm
	Dual Extruder	11.6 × 9.4 × 9.4 inch/ 295 × 240 × 240 mm	11.6 × 9.4 × 9.4 inch/ 295 × 240 × 240 mm	10 × 11.8 × 11.8 in/ 255 × 300 × 300 mm	10 × 11.8 × 23.8 in/ 255 × 300 × 605 mm	11 × 12 × 11.8 inch/ 280 × 305 × 300 mm	11 × 12 × 23.8 inch/ 280 × 305 × 605 mm
Machine Size (W × D × H)		23.9 × 23.5 × 18.3 inch/ 607 × 596 × 465 mm	23.9 × 23.5 × 18.3 inch/ 607 × 596 × 465 mm	24.4 × 24.6 × 29.9 in/ 620 × 626 × 760 mm	24.4 × 24.6 × 43.5 in/ 620 × 626 × 1105 mm	24.4 × 23.2 × 29.9 inch/ 620 × 590 × 760 mm	24.4 × 23.2 × 43.5 inch/ 620 × 590 × 1105 mm
Net Weight		32.4 kg/ 71.4 lb (Raise3D Filament Dry Box not included)	35 kg/ 77.2 lb	52.5 kg/ 115.7 lb	61.15 kg/ 134.8 lb	50.2 kg/ 110.7 lb	59.3 kg/ 130.7 lb
Gross Weight (Carton with Pallet)		45.4 kg/ 100.1 lb (Raise3D Filament Dry Box not included)	50 kg/ 110.2 lb	84.55 kg/ 186.4 lb	95.4 kg/ 210.3 lb	70.5 kg/ 155.4 lb	79.6 kg/ 175.5 lb
Print Technology		FFF		FFF		FFF	
Print Head System		IDEX Independent Dual Extruders	IDEX Independent Dual Extruders	Dual-head with electronic lifting system	Dual-head with electronic lifting system	Dual-head with electronic lifting system	Dual-head with electronic lifting system
Filament Diameter		1.75 mm	1.75 mm	1.75 mm	1.75 mm	1.75 mm	1.75 mm
XYZ Step Size		0.78125, 0.78125, 0.078125 micron	0.78125, 0.78125, 0.078125 micron	0.78125, 0.78125, 0.078125 micron	0.78125, 0.78125, 0.078125 micron	0.78125, 0.78125, 0.078125 micron	0.78125, 0.78125, 0.078125 micron
Print Head Travel Speed		30-150 mm/s	30-150 mm/s	30-150 mm/s	30-150 mm/s	30-150 mm/s	30-150 mm/s
Build Plate		Flexible Steel Plate with Buildtak	Flexible Steel Plate with Buildtak	Flexible Steel Plate with Buildtak	Flexible Steel Plate with Buildtak	Heated aluminum build plate with magnetic	Heated aluminum build plate with magnetic
Max Build Plate Temperature		110°C/ 230°F	110°C/ 230°F	120°C/ 248°F	120°C/ 248°F	110°C/ 230°F	110°C/ 230°F
Heated Bed Material		Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
Build Plate Leveling		Mesh-leveling with Flatness Detection	Mesh-leveling with Flatness Detection	Mesh-leveling with Flatness Detection	Mesh-leveling with Flatness Detection	Pre-calibrated leveling	Pre-calibrated leveling
Filament Run-out Sensor		Available	Available	Available	Available	Available	Available
Supported Materials		Raise3D Industrial PA12 CF, Raise3D Industrial PA12 CF Support (PPA CF, PPS CF and PET CF Coming soon)	PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill/ OFP Certified Third-Party Filaments	PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill/ OFP Certified Third-Party Filaments		PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill/ OFP Certified Third-Party Filaments	
Layer Height		0.1-0.25 mm	0.02-0.25 mm	0.01-0.25 mm	0.01-0.25 mm	0.01-0.25 mm	0.01-0.25 mm
Nozzle Diameter		0.4 mm (Default), 0.6/ 0.8 mm (Available)	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm(Available)	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)
Max Nozzle Temperature		300°C/ 572°F	300°C/ 572°F	300°C/ 572°F	300°C/ 572°F	300°C/ 572°F	300°C/ 572°F
Connectivity		Wi-Fi, LAN, USB port, Live camera	Wi-Fi, LAN, USB port, Live camera	Wi-Fi, LAN, USB port, Live camera	Wi-Fi, LAN, USB port, Live camera	Wi-Fi, LAN, USB port, Live camera	Wi-Fi, LAN, USB port, Live camera
Noise Emission (Acoustic)		< 50 dB (A) when building	< 50 dB (A) when building	< 55 dB (A) when building	< 55 dB (A) when building	< 50 dB (A) when building	< 50 dB (A) when building
Operating Ambient Temperature		15-30°C, 10-90% RH non-condensing	15-30°C, 10-90% RH non-condensing	15-30°C, 10-90% RH non-condensing	15-30°C, 10-90% RH non-condensing	15-30°C, 10-91% RH non-condensing	15-30°C, 10-92% RH non-condensing
Storage Temperature		-25°C to +55°C, 10-92% RH non-condensing	-25°C to +55°C, 10-90% RH non-condensing	-25°C to +55°C, 10-92% RH non-condensing	-25°C to +55°C, 10-92% RH non-condensing	-25°C to +55°C, 10-91% RH non-condensing	-25°C to +55°C, 10-92% RH non-condensing
Filter		HEPA filter with activated charcoal	HEPA filter with activated charcoal	HEPA filter with activated charcoal	HEPA filter with activated charcoal	HEPA filter with activated charcoal	HEPA filter with activated charcoal
Technical Certifications		N/A	CB, CE, FCC, RoHS, RCM	N/A	N/A	CB, CE, FCC, RoHS	CB, CE, FCC, RoHS
Supported File Types		STL/ OBJ/ 3MF/ OLTP	STL/ OBJ/ 3MF/ OLTP	STL/ OBJ/ 3MF/ OLTP	STL/ OBJ/ 3MF/ OLTP	STL/ OBJ/ 3MF/ OLTP	STL/ OBJ/ 3MF/ OLTP
Supported OS		Windows/ macOS/ Linux	Windows/ macOS/ Linux	Windows/ macOS/ Linux	Windows/ macOS/ Linux	Windows/ macOS/ Linux	Windows/ macOS/ Linux
Network		Wi-Fi, Ethernet	Wi-Fi, Ethernet	Wi-Fi, Ethernet	Wi-Fi, Ethernet	Wi-Fi, Ethernet	Wi-Fi, Ethernet
Power Loss Recovery		Available	Available	Available	Available	Available	Available
Memory		1 GB	1 GB	1 GB	1 GB	1 GB	1 GB
Onboard Flash		8 GB	8 GB	8 GB	8 GB	8 GB	8 GB