

JOIN OUR JOURNEY WITH SOLUM

August, 2023

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I . NEWTON CORE LINE UP (1.6~2.9")

NEWTON CORE I WHITE FRAME



NEWTON FREEZER I WHITE FRAME



NEWTON CORE I BLACK FRAME



1.6"



2.2"



2.6"



2.9"

NEWTON FREEZER I BLACK FRAME



FREEZER 2.2"



FREEZER 2.6"



FREEZER 2.9"

NEWTON CORE I APPLICATION 2.2"



NEWTON CORE I APPLICATION 2.9"



NEWTON CORE BWR (1.6", 2.2", 2.6", 2.9", 3.52", 4.2", 4.3", 5.85", 7.5", 9.7", 11.6", 12.2")

NEWTON Line-up



NEWTON CORE BWR SPECIFICATION I 1.6", 2.2", 2.6", 2.9", 3.52", 4.2", 4.3", 5.85", 7.5", 9.7", 11.6", 12.2"

Newton Sizes	1.6"	2.2"	2.6"	2.9"	3.52"	4.2"	4.3"	5.85"	7.5"	9.7"	11.6"	12.2"
Dimension	37.08 x 46.75 x 11.52 mm	68.05 x 36.95 x 11.52mm	80.14 x 42.79 x 11.52 mm	87.33 x 42.79 x 11.52mm	99.58 x 49.19 x 12.15 mm	97.92 x 83.65 x 13.30 mm	128.62x 41.94 x 12.15 mm	166.27x 65.78 x 13.30 mm	181.27x 124.84 x 13.80 mm	167.65 x 220.04 x 13.80 mm	272.37x 210.00x 14.20 mm	261.56 x 215.24 x 14.20 mm
Active Display Area	27.0 x 27.0 mm 1.0 x 1.0 inch	48.1 x 26.0 mm 1.8 x 1.0 inch	60.1 x 30.7 mm 2.3 x 1.2 inch	67.6 x 29.6 mm 2.6 x 1.1 inch	81.0 x 37.9 mm 3.1 x 1.5 inch	84.8 x 63.6 mm 3.3 x 2.5 inch	105.4 x 30.7 mm 4.14 x 1.20 inch	47.7 x 139.0 mm 1.87 x 5.47 inch	163.2 x 97.9 mm 6.4 x 3.8 inch	141.1 x 201.6 mm 5.55 x 7.93 inch	163.0 x 244.5 mm 6.4 x 9.62 inch	190.1 x 237.6 mm 7.48 x 9.35 inch
Resolution(Pixel)	200 x 200	296 x 160	360 x 184	384 x 168	384 x 180	400 x 300	522 x 152	792 x 272	800 x 480	672 x 960	640 x 960	768 x 960
Pixel Density	184 dpi	156 dpi	152 dpi	144 dpi	120 dpi	120 dpi	125 dpi	145 dpi	126 dpi	121 dpi	100 dpi	103 dpi
Display Technology	Full Graphic E-Ink Display											
Pixel Colors	BWR(Black, White, Red)											
Viewing Angle	Nearly 180°											
Usable Pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 3 pages	Up to 7 pages
Operating Temperature	32 ~ 104F (0 ~ 40°) @45~70% RH											
Battery	CR2450 x 1	CR2450 x 2	CR2450 x 2	CR2450 x 2	CR2450 x 2	CR2450 x 2	CR2450 x 2	CR2450 x 3	CR2450 x 4	CR2450 x 5	AA x 4	CR2450 x 6
Battery Lifetime	Over 10 years											
Encryption	128-Bit AES Encryption											
Compliance	CE, ROHS, FCC											
NFC	Built-in Felica NFC Forum Type 3											
LED	7 Colors(Red/Green/Blue/Yellow/Cyan/Magenta/White)											
ESL Operating Frequency	2.4 Ghz											
Wireless Firmware Update	Yes											

NEWTON CORE (SEMI-CORE) BWRY (1.6", 2.2", 2.6", 2.9", 3.52", 4.2", 4.3", 5.85", 6.0", 7.5", 9.7", 11.6", 12.2")

NEWTON Line-up



NEWTON CORE BWRY SPECIFICATION | 1.6", 2.2", 2.6", 2.9", 3.52", 4.2", 4.3", 5.85", 6.0", 7.5", 9.7", 11.6", 12.2"

NEWTON SIZES	1.6"	2.2"	2.6"	2.9"	3.52"	4.2"	4.3"	5.85"	6.0"	7.5"	9.7"	11.6"	12.2"
DIMENSION	37.08 x 46.75 x 11.52 mm	68.05 x 36.95 x 11.52mm	80.14 x 42.79 x 11.52 mm	87.33 x 42.79 x 12.15mm	99.58 x 49.19 x 12.15 mm	97.92 x 83.65 x 13.30 mm	128.62 x 41.94 x 12.15 mm	166.27 x 65.78 x 13.30 mm	138.53 x 124.07 x 13.80 mm	181.27 x 124.84 x 13.80 mm	167.65 x 220.04 x 13.80 mm	272.37 x 210.00 x 14.20 mm	261.56 x 215.24 x 14.20 mm
ACTIVE DISPLAY AREA	27.0 x 27.0 mm 1.0 x 1.0 inch	48.1 x 26.0 mm 1.8 x 1.0 inch	60.1 x 30.7 mm 2.3 x 1.2 inch	57.3 x 38.1 mm 2.25 x 1.50 inch	67.6 x 29.6 mm 2.6 x 1.1 inch	84.8 x 63.6 mm 3.3 x 2.5 inch	105.4 x 30.7 mm 4.14 x 1.20 inch	47.7 x 139.0 mm 1.87 x 5.47 inch	114.9 x 85.8 mm 4.5 x 1.20 inch	163.2 x 97.9 mm 6.4 x 3.8 inch	141.1 x 201.6 mm 5.55 x 7.93 inch	163.0 x 244.5 mm 6.4 x 9.62 inch	190.1 x 237.6 mm 7.48 x 9.35 inch
RESOLUTION(Pixel)	200 x 200	296 x 160	360 x 184	384 x 168	384 x 180	400 x 300	522 x 152	792 x 272	600 x 448	800 x 480	672 x 960	640 x 960	768 x 960
PIXEL DENSITY	184 dpi	156 dpi	152 dpi	144 dpi	120 dpi	120 dpi	125 dpi	145 dpi	132 dpi	126 dpi	121 dpi	100 dpi	103 dpi
DISPLAY TECHNOLOGY	Full Graphic E-Ink Display												
PIXEL COLORS	BW(Black, White) / BWR(Black, White, Red) / BWRY(Black, White, Red, Yellow)												
VIEWING ANGLE	Nearly 180°												
USABLE PAGES	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 7 pages	Up to 3 pages	Up to 7 pages
OPERATING TEMPERATURE	50 ~ 104F (10 ~ 40°) @45~70% RH												
BATTERY	CR2450 x 1	CR2450 x 2	CR2450 x 2	CR2450 x 2	CR2450 x 2	CR2450 x 2	CR2450 x 2	CR2450 x 3	CR2450 x 4	CR2450 x 4	CR2450 x 5	AA x 4	CR2450 x 6
BATTERY LIFETIME	Over 10 years												
ENCRYPTION	128-Bit AES Encryption												
COMPLIANCE	CE, ROHS, FCC												
NFC	Built-in Felica NFC Forum Type 3												
LED	7 Colors(Red/Green/Blue/Yellow/Cyan/Magenta/White)												
ESL OPERATING FREQUENCY	2.4 Ghz												
WIRELESS FIRMWARE UPDATE	Yes												

II . NEWTON CORE KEYFEATURE

KEY FEATURES | H/W

10 

10 Years Battery Life

2 updates a day, Operating temperature 10 – 40 degrees (general OP 0 – 40 degrees)100 sec blinking per day. Sustainable battery concept with changeable batteries (CR2450)

7 

7 Colors LED

This new generation tag allows continuous LED blinking for promotional purposes. With 3 sec of interval and 8 hours of operation in a day (8,228 times of LED light per day) and for 100 days for a year, the battery life can still go up to 5 years. LED colors : (RYGTBVW)



Customizable Design

The real beauty of Newton is the fact that it is customizable. With Newton, you can incorporate your company’s colors, patterns, and company logo



Easy Locking System

Installation and removal have never been easier with Newton’s easy locking system. You won’t need any other tools to install it. Just use the Newton remover to detach a tag from the shelves



KEY FEATURES | H/W

10x

x10 Fast Update Speed

Three thousand tags can be updated within 5 minutes with a single Newton Gateway, which means it takes 0.1 seconds to update one tag. That makes Newton 10 times faster compared to other ESLs.



Up to 7 Page

From nutritional facts to expiration dates to allergy warnings, all of this information can be uploaded into Newton’s 7 pages. Using the multifunctional buttons, customers can flip through the different pages to access more data about the product.)

N))

NFC

Newton’s built-in NFC capabilities allow you to perform mobile payments (self-checkout), link to your company’s online website, and download a digital coupon.



High Resolution

Newton’s screen resolution got upgraded by 20%, and now the crisp and the clear display comes with 184 dpi for 1,6” and 144dpi for our 2,9”



Collision-free Communication

Newton allows more than 60 RF channels (meanwhile, competitors offer only 11~16 available channels) which means it’s a lot easier to select the communication channels in case of a very crowded WIFI circumstance.

III. NEWTON CORE SPECIFICATIONS

NEWTON CORE I 1.6INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	37.08 × 46.75 × 11.52 mm
ACTIVE DISPLAY AREA	27.0 × 27.0 mm / 1.00 × 1.00 inch
RESOLUTION (Pixel)	200 × 200
PIXEL DENSITY	184 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	CR2450 × 1ea
BATTERY LIFETIME	Up To 5 years (2 updates/day) ※ 3 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

※ This specification may vary depending on the installation environment and user scenario. This document is subject to change without notice.

NEWTON CORE I 2.2INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	68.05 × 36.95 × 11.52 mm
ACTIVE DISPLAY AREA	48.1 × 26.0 mm / 1.80 × 1.02 inch
RESOLUTION (Pixel)	296 × 160
PIXEL DENSITY	156 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON FREEZER I 2.2INCH



PRODUCT SPECIFICATION	
MODEL	W:ELF22H3WMA/WWW
DIMENSION	67.1 × 37.4 × 13.1 mm / 2.64 × 1.47 × 0.51 inch
ACTIVE DISPLAY AREA	48.1 × 26.0 mm / 1.89 × 1.02 inch
RESOLUTION (Pixel)	296 × 160
PIXEL DENSITY	156 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	-25 ~ 0°C (-13 ~ 32°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 3 years (1 Update/day)
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	IP67
BUTTON	2 Buttons
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE I 2.6INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	80.14 × 42.79 × 11.52 mm
ACTIVE DISPLAY AREA	60.1 × 30.7 mm / 2.30 × 1.20 inch
RESOLUTION (Pixel)	360 × 184
PIXEL DENSITY	152 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40°C (32 ~ 104°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON FREEZER I 2.6INCH



PRODUCT SPECIFICATION	
MODEL	W:ELF26H3WMA/WWW
DIMENSION	79.3 × 42.4 × 13.1 mm / 3.12 × 1.66 × 0.51 inch
ACTIVE DISPLAY AREA	60.1 × 30.7 mm / 2.36 × 1.20 inch
RESOLUTION (Pixel)	360 × 184
PIXEL DENSITY	152 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW(Black, White)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	-25 ~ 0°C (-13 ~ 32°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 3 years (1 Update/day)
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	IP67
BUTTON	2 Buttons
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE I 2.9INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	87.33 × 42.79 × 11.52 mm
ACTIVE DISPLAY AREA	67.6 × 29.6 mm / 2.60 × 1.10 inch
RESOLUTION (Pixel)	384 × 168
PIXEL DENSITY	144 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10℃
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON FREEZER I 2.9INCH



PRODUCT SPECIFICATION	
MODEL	W:ELF29H3WMA/WWW
DIMENSION	86.0 × 41.3 × 13.1 mm / 3.38 × 1.62 × 0.51 inch
ACTIVE DISPLAY AREA	67.6 × 29.6 mm / 2.66 × 1.16 inch
RESOLUTION (Pixel)	384 × 168
PIXEL DENSITY	144 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW(Black, White)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	-25 ~ 0°C (-13 ~ 32°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 3 years (1 Update/day)
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	IP67
BUTTON	2 Buttons
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE I 3.52INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	99.58 × 49.19 × 11.52 mm
ACTIVE DISPLAY AREA	81.0 x 37.9 mm / 3.1 x 1.1 inch
RESOLUTION (Pixel)	384 x 180
PIXEL DENSITY	120 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Battery Pack(CR2450 × 2ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE I 4.2INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	97.92 × 83.65 × 13.30 mm
ACTIVE DISPLAY AREA	84.8 x 63.6 mm / 3.3 x 2.5 inch
RESOLUTION (Pixel)	400 x 300
PIXEL DENSITY	120 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Battery Pack(CR2450 × 2ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE I 4.3INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	128.62 × 41.94 × 12.15 mm
ACTIVE DISPLAY AREA	105.4 × 30.7 mm / 4.14 × 1.20 inch
RESOLUTION (Pixel)	522 × 152
PIXEL DENSITY	125 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104℉)
BATTERY	Battery Pack(CR2450 × 3ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10℃
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE I 5.85INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	166.27 × 65.78 × 13.30 mm
ACTIVE DISPLAY AREA	139.0 × 47.7 mm / 5.47 × 1.87 inch
RESOLUTION (Pixel)	792 × 272
PIXEL DENSITY	145 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Battery Pack(CR2450 × 3ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

※ This specification may vary depending on the installation environment and user scenario. This document is subject to change without notice.

NEWTON CORE FREEZER I 5.85INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	166.27 × 65.78 × 13.30 mm
ACTIVE DISPLAY AREA	139.0x 47.7 mm / 5.47 x 1.87 inch
RESOLUTION (Pixel)	792 × 272
PIXEL DENSITY	145 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW(Black, White)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	-25 ~ 0°C (-13 ~ 32°F)
BATTERY	PACK TYPE (CR2450 × 4ea)
BATTERY LIFETIME	Up To 4 years (1 update/day)
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE I 7.5INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	181.27 × 124.84 × 13.80 mm
ACTIVE DISPLAY AREA	163.2 × 97.9 mm / 6.40 × 3.80 inch
RESOLUTION (Pixel)	800 × 480
PIXEL DENSITY	126 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 3 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Battery Pack(CR2450 × 4ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

※ This specification may vary depending on the installation environment and user scenario. This document is subject to change without notice.

NEWTON CORE I 9.7INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	167.65 × 220.04 × 13.80 mm
ACTIVE DISPLAY AREA	141.1 × 201.6 mm / 5.55 × 7.93 inch
RESOLUTION (Pixel)	672 × 960
PIXEL DENSITY	121 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Battery Pack(CR2450 × 5ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

※ This specification may vary depending on the installation environment and user scenario. This document is subject to change without notice.

NEWTON CORE I 11.6INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	272.37 × 210.00 × 14.20 mm
ACTIVE DISPLAY AREA	163.0 x 244.5 mm / 6.40 x 9.62 inch
RESOLUTION (Pixel)	640 x 960
PIXEL DENSITY	100 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 3 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	AA Lithium Battery 4 pcs
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

※ This specification may vary depending on the installation environment and user scenario. This document is subject to change without notice.

NEWTON CORE I 12.2INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	261.56 × 215.24 × 14.20 mm
ACTIVE DISPLAY AREA	190.1 x 237.6 mm / 7.48 x 9.35 inch
RESOLUTION (Pixel)	768 x 960
PIXEL DENSITY	103 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BWR(Black, White, Red)
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Pack Type (CR2450 × 6ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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IV. NEWTON CORE 4COLOR SPECIFICATIONS

NEWTON CORE 4COLOR I 1.6INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	37.08 × 46.75 × 11.52 mm
ACTIVE DISPLAY AREA	27.0 x 27.0 mm / 1.0 x 1.0 inch
RESOLUTION (Pixel)	200 x 200
PIXEL DENSITY	184 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	CR2450 × 1ea
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 2.2INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	68.05 × 36.95 × 11.52 mm
ACTIVE DISPLAY AREA	48.1 x 26.0 mm / 1.80 x 1.02 inch
RESOLUTION (Pixel)	296 x 160
PIXEL DENSITY	156 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 2.6INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	80.14 × 42.79 × 11.52 mm
ACTIVE DISPLAY AREA	60.1 x 30.7 mm / 2.30 x 1.20 inch
RESOLUTION (Pixel)	360 x 184
PIXEL DENSITY	152 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40°C (32 ~ 104°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 2.9 INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	87.33 × 42.79 × 11.52 mm
ACTIVE DISPLAY AREA	67.6 x 29.6 mm / 2.60 x 1.10 inch
RESOLUTION (Pixel)	384 x 168
PIXEL DENSITY	144 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40°C (32 ~ 104°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 3.52INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	99.58 × 49.19 × 11.52 mm
ACTIVE DISPLAY AREA	81.0 x 37.9 mm / 3.10 x 1.50 inch
RESOLUTION (Pixel)	384 x 180
PIXEL DENSITY	120 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	CR2450 × 2ea
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 4.2INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	97.92 × 83.65 × 13.30 mm
ACTIVE DISPLAY AREA	84.8 x 63.6 mm / 3.30 x 2.50 inch
RESOLUTION (Pixel)	400 x 300
PIXEL DENSITY	120 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Pack Type (CR2450 × 2ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 4.3INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	128.62 × 41.94 × 12.15 mm
ACTIVE DISPLAY AREA	105.4 x 30.7mm / 4.14 x 1.20 inch
RESOLUTION (Pixel)	522 x 152
PIXEL DENSITY	125 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Pack Type (CR2450 × 3ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 5.85INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	166.27 × 65.78 × 13.30 mm
ACTIVE DISPLAY AREA	139.0 × 47.7 mm / 5.47 × 1.87 inch
RESOLUTION (Pixel)	792 x 272
PIXEL DENSITY	145 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Pack Type (CR2450 × 3ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 6.0INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	TBD
ACTIVE DISPLAY AREA	114.9 × 85.8 mm / 4.52 × 3.37 inch
RESOLUTION (Pixel)	600 x 448
PIXEL DENSITY	132 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 3 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	TBD
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 7.5INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	181.27 × 124.84 × 13.80 mm
ACTIVE DISPLAY AREA	163.2 x 97.9 mm / 6.40 x 3.80 inch
RESOLUTION (Pixel)	800 x 480
PIXEL DENSITY	126 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 3 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Pack Type (CR2450 × 4ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 9.7INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	167.65 × 220.04 × 13.80 mm
ACTIVE DISPLAY AREA	141.1 x 201.6 mm / 5.55 x 7.93 inch
RESOLUTION (Pixel)	672 x 960
PIXEL DENSITY	121 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Pack Type (CR2450 × 5ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 11.6INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	272.37 × 210.00 × 14.20 mm
ACTIVE DISPLAY AREA	163.0 x 244.5 mm / 6.40 x 9.62 inch
RESOLUTION (Pixel)	640 x 960
PIXEL DENSITY	100 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 3 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	AA Lithium Battery 4 pcs
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10 °C
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON CORE 4COLOR I 12.2INCH



PRODUCT SPECIFICATION	
MODEL	TBD
DIMENSION	261.56 × 215.24 × 14.20 mm
ACTIVE DISPLAY AREA	190.1 x 237.6 mm / 7.48 x 9.35 inch
RESOLUTION (Pixel)	768 x 960
PIXEL DENSITY	103 dpi
DISPLAY TECHNOLOGY	Full Graphic E-ink Display
BEZEL COLOR	White or Black, Customizable Color(Optional)
PIXEL COLORS	BW / BWR / BWRY
VIEWING ANGLE	Nearly 180°
USABLE PAGES	Up to 7 pages
OPERATING TEMPERATURE	0 ~ 40℃ (32 ~ 104°F)
BATTERY	Pack Type (CR2450 × 6ea)
BATTERY LIFETIME	Up To 10 years (2 updates/day) ※ 5 years in 0~10℃
ENCRYPTION	128-Bit AES
COMPLIANCE	CE, RoHS, FCC
NFC	FeliCa NFC Forum Type 3
WATERPROOF	N/A
BUTTON	X
LED	7 Colors (Red/Green/Blue/Yellow/Cyan/Magenta/White)
ESL OPERATING FREQUENCY	2.4 GHz
WIRELESS FIRMWARE UPDATE	Yes

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NEWTON Line-up

NEWTON CORE 3.52" BWRY I APPLICATION



NEWTON Line-up

NEWTON CORE 5.85" BWRY I APPLICATION



THANK YOU VERY MUCH FOR YOUR ATTENTION!