

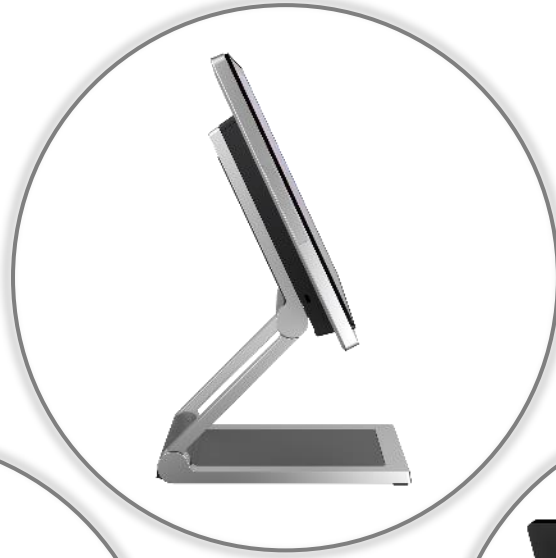


Join the
*Storevolution*TM

POS & Peripherals Update

DN Series BEETLE
Next Generation
POS SYSTEMS & DISPLAYS

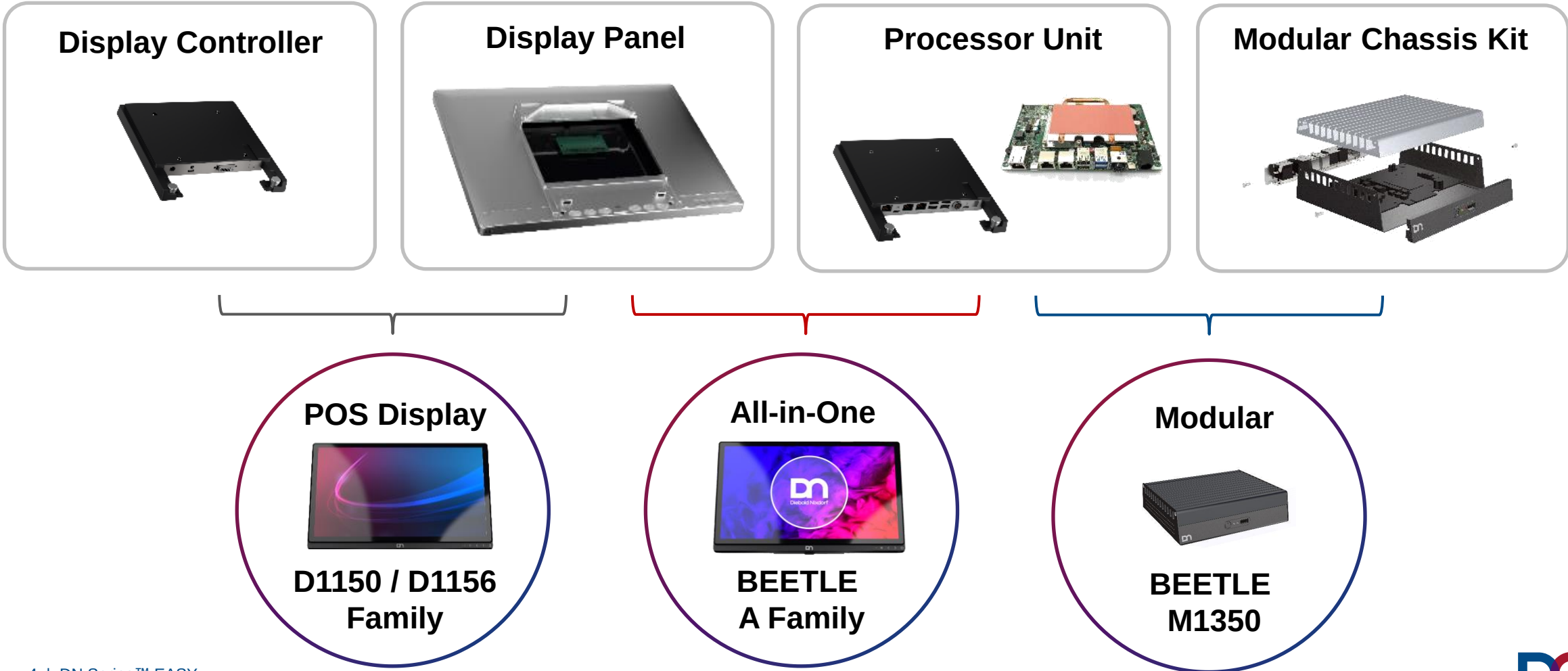
DN Series™ BEETLE – It's stylish, yet retail-hardened



DN Series™ BEETLE – Modularity @ its Best

MODULARITY

Mix & Match through an innovative Click & Connect mechanism



BEETLE A & D Family – A Unified Platform for Individual Requirements



Mix & Match via Click & Connect

3_X Touch
Display
Units



15" / 4:3



15.6" / 16:9



18.5" / 16:9

Q3/2023

3_X System /
Controller
Units

Mobile CPU
fanless



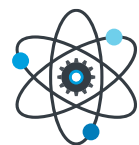
Desktop CPU
with fan



Display
Controller



Solution Highlights



Innovative technology



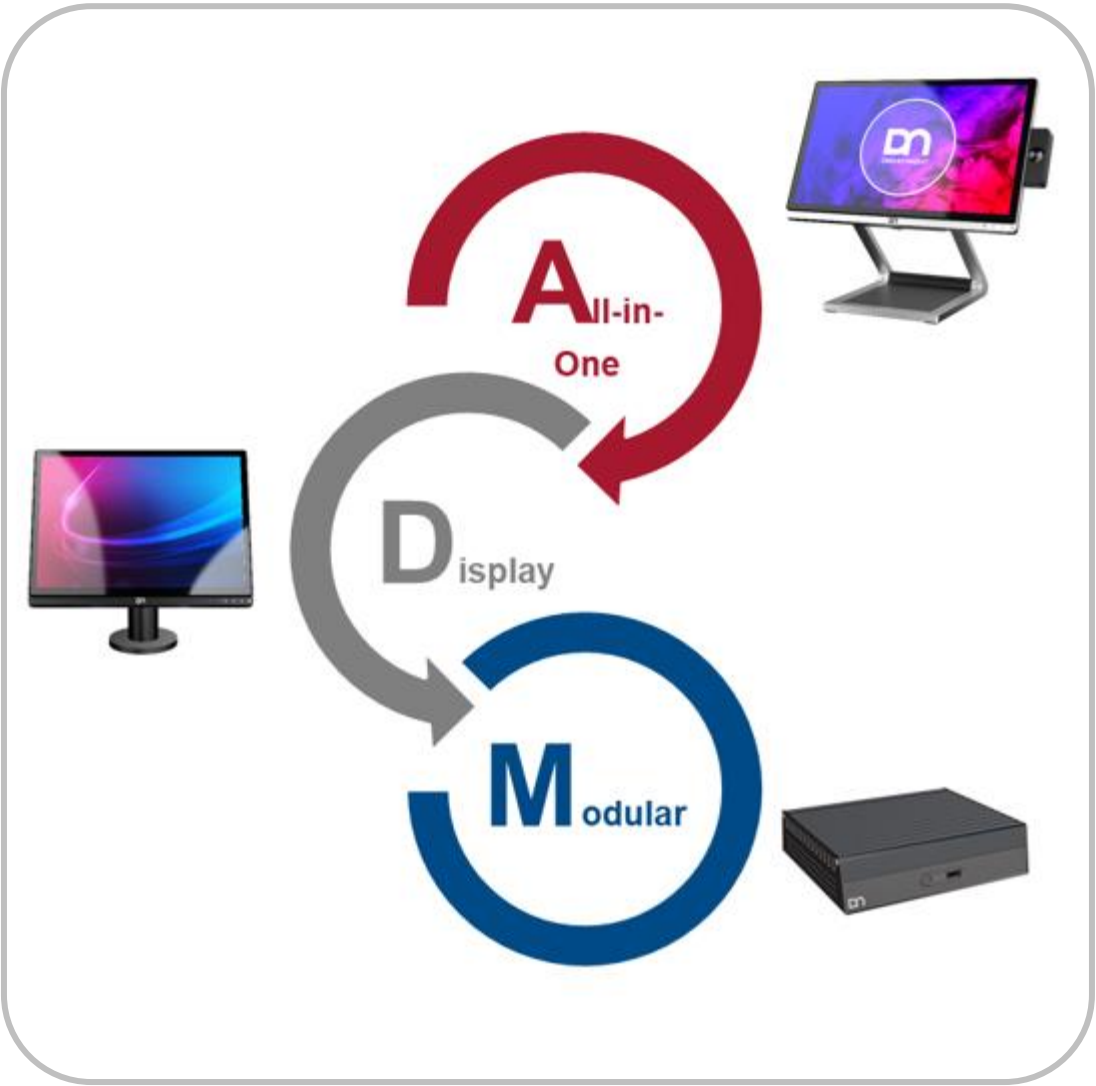
A unified & future-proof module platform



Scalable performance & functionality



Service-friendly



Highest modularity & flexibility



Innovative “Click & Connect” system design



Reliable, long-lasting & eco-friendly



DN Series™ BEETLE at a Glance



BEETLE A1150 ✓
15.6" WHL
fanless & sealed



BEETLE A1050 ✓
15.0" WHL
fanless & sealed



BEETLE A1070 ✓
15.6" CL
Fan-operated



BEETLE A1170 ✓
15.0" CL
Fan-operated



BEETLE M1350 ✓
WHL
fanless & sealed



All-In-One Systems



BEETLE A Family – Display Options



Size

15.6"

Highlights

- LED-backlit LCD, 16:9
- Resolution Full HD 1.920 x 1.080 pixels
- Projected capacitive multi-touch, 10-point

Dimensions

- 376 x 236 (depth depends on controller unit)
- 376 x 342 x 207 mm (with stand)

Color Options



Black



Silver



Size

15"

Highlights

- LED-backlit LCD, 4:3
- Resolution 1.024 x 768 pixels
- Projected capacitive multi-touch, 10-point

Dimensions

- 339 x 273 (depth depends on controller unit)
- 339 x 378 x 207 mm (with stand)

Color Options



Black



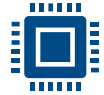
Silver

BEETLE A1x50 (WHL) & A1x7x (CFL) differences



Fanless

BEETLE A1050 / A1150



Processors

Intel **Whiskey Lake** U mobile processors

- Celeron 4305UE
- Core i3-8145UE
- Core i5-8365UE



Interfaces

- 2x USB-C
- 3x USB 3.0
- 2x USB 2.0
- 1x Cash drawer
- 2x RJ50 (RS232)
- 1x LAN



Dimensions
In mm

- 15": 273 x 339 x 40
- 15.6": 237 x 376 x 40



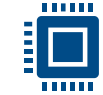
Power
Consumption
15,6"

- **Cel. 4305UE:** 2.11W (Soft-Off), 2.47W (Sleep), 16W (Idle), 33.15W (Performance)
- **Core i3-8145UE:** 2.12W (Soft-Off), 2.53W (Sleep), 18W (Idle), 39.47W (Performance)
- **Core i5-8365UE:** 2.15W (Soft-Off), 2.56W (Sleep), 18W (Idle), 40.02W (Performance)



Fan-cooled

BEETLE A107x / A117x



Processors

Intel **Coffee Lake** desktop processors

- Celeron G4900T
- Core i3-9100TE
- Core i5-9500TE



Interfaces

- 2x USB-C
- 1x USB 3.0
- 3x USB 2.0
- 1x Cash drawer
- 3x RJ50 (RS232)
- 1x LAN



Dimensions
In mm

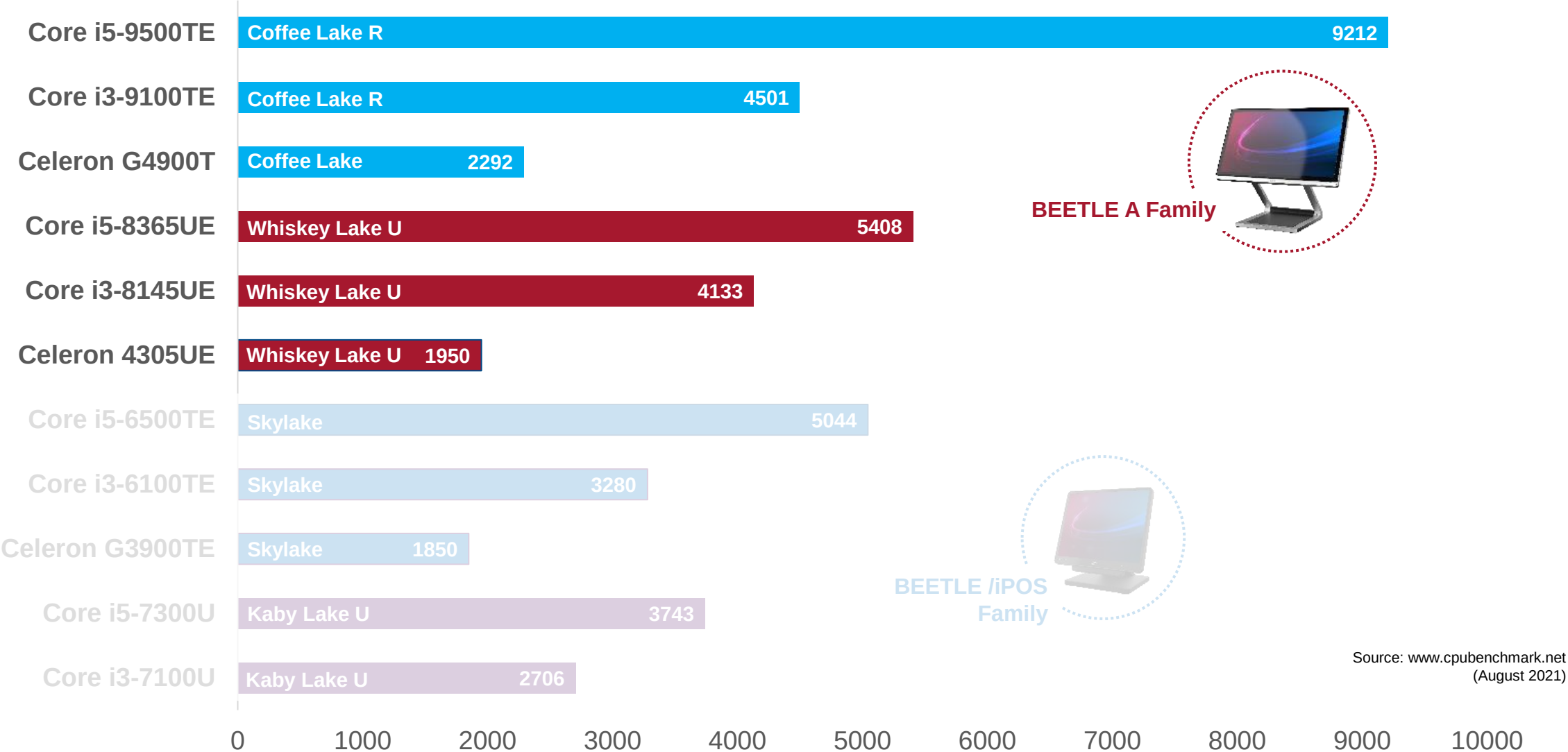
- 15": 273 x 339 x 49
- 15.6": 237 x 376 x 49



Power
Consumption
15,6"

- **Cel. G4900T:** 1.42W (Soft-Off), 1.57W (Sleep), 22.7W (Idle), 47.32W (Performance)
- **Core i3-9100TE:** 1.36W (Soft-Off), 1.6W (Sleep), 23.7W (Idle), 69.08W (Performance)
- **Core i5-9500TE:** 1.12W (Soft-Off), 1.32W (Sleep), 23.82W (Idle), 78.7W (Performance)

All-In-One POS Systems – Processor PassMark Index



DN Series™ BEETLE – Sturdy and Adjustable Stand



- 1 Tilt-angle adjustable
- 2 Height adjustable
- 3 Integrated cable channel
- 4 Optional I/ hub integration
- 5 VESA 100 compatible
- 6 Optional cable covers



DN Series™ BEETLE – Extensive choice of Interface options



1 Use case without any I/O hub

- Ethernet LAN RJ45
- USB-C w. DP + PD 5V/12
- 2x COM Ports RJ50
- 2x USB 2.0 Type A
- 2x USB 3.0 Type A
- 24V Power-in
- USB-C w. PD 5V12V//24V
- Cash Drawer RJ12

2 Use case with integrated I/O hub

- 1x USB-C uplink port incl. 24V to system unit
- 1x USB-C (with PD 5V/12V + DisplayPort)
- 2x PoweredUSB (1x 24V + 1x 12V)
- 2x USB 3.0
- 1x Cash drawer RJ12
- 1x Ethernet LAN RJ45
- 3x RJ50/RS232 (switchable for 0V/5V/12V)

3 Use case with external I/O hub

4 Use case with external I/O multi-interface hub

- 1x USB-C Uplink Port 24V to system unit
- 1x USB-C (with PD 5V/12V + DisplayPort)
- 2x RS232 (non-powered)
- 2x RS232 (powered)
- 4x USB-A 2.0
- 2x USB-A 3.0: 2
- 5x Powered USB 4x12V + 2x24V
- 1x Cash drawer RJ12
- 1x LAN (10/100/1000 Mbit/s)
- 1x LAN (Pass-Through) - in + out

DN Series™ BEETLE – I/O hub options

OPTION 1 – Standard I/O HUB



- 3x RJ45/RS232 (switchable for 0V/5V/12V)



- 1x USB-C uplink port incl. 24V to system unit
- 1x USB-C (with PD 5V/12V + DisplayPort)
- 2x PoweredUSB (1x 24V + 1x 12V)
- 2x USB 3.0
- 1x Cash drawer RJ12
- 1x Ethernet LAN RJ45



OPTION 2 – MULTI-INTERFACE-HUB



- 1x USB-C Uplink Port 24V to system unit
- 1x USB-C (with PD 5V/12V + DisplayPort)
- 2x RS232 (non-powered)
- 2x RS232 (powered)
- 4x USB-A 2.0
- 2x USB-A 3.0
- 5x Powered USB 4x12V + 1x24V
- 1x Cash drawer RJ12
- 1x LAN (10/100/1000 Mbit/s)
- 1x LAN (Pass-Through) - in + out

DN Series™ BEETLE – Pole Installation via VESA Standard



DN Series™ BEETLE – A broad selection of side attachments



Modular POS

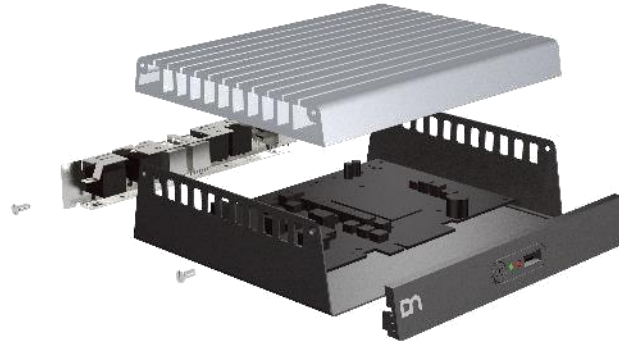


DN Series™ BEETLE M1350 – An Advanced Modular POS System

Motherboard



Modular Chassis



Highlights of BEETLE M1350

- ✓ 8th Gen Intel Whiskey Lake U mobile Core processor technology
- ✓ A unified platform for all-in-one & modular POS systems
- ✓ Highest reliability / fan-less system design
- ✓ Scalable I/O concept based on USB-C standard
- ✓ vPro conform, iAMT, RAID support
- ✓ A compact, space-saving system unit



DN Series™ BEETLE M1350 – A Powerful Central Unit with I/O Hub Option

Highlights

- ✓ 8th Gen Intel Whiskey Lake U mobile Core processor technology
- ✓ A unified platform for all-in-one & modular POS systems
- ✓ Highest reliability / fan-less system design
- ✓ Scalable I/O concept based on USB-C standard
- ✓ vPro conform, iAMT, RAID support
- ✓ A compact, space-saving system unit



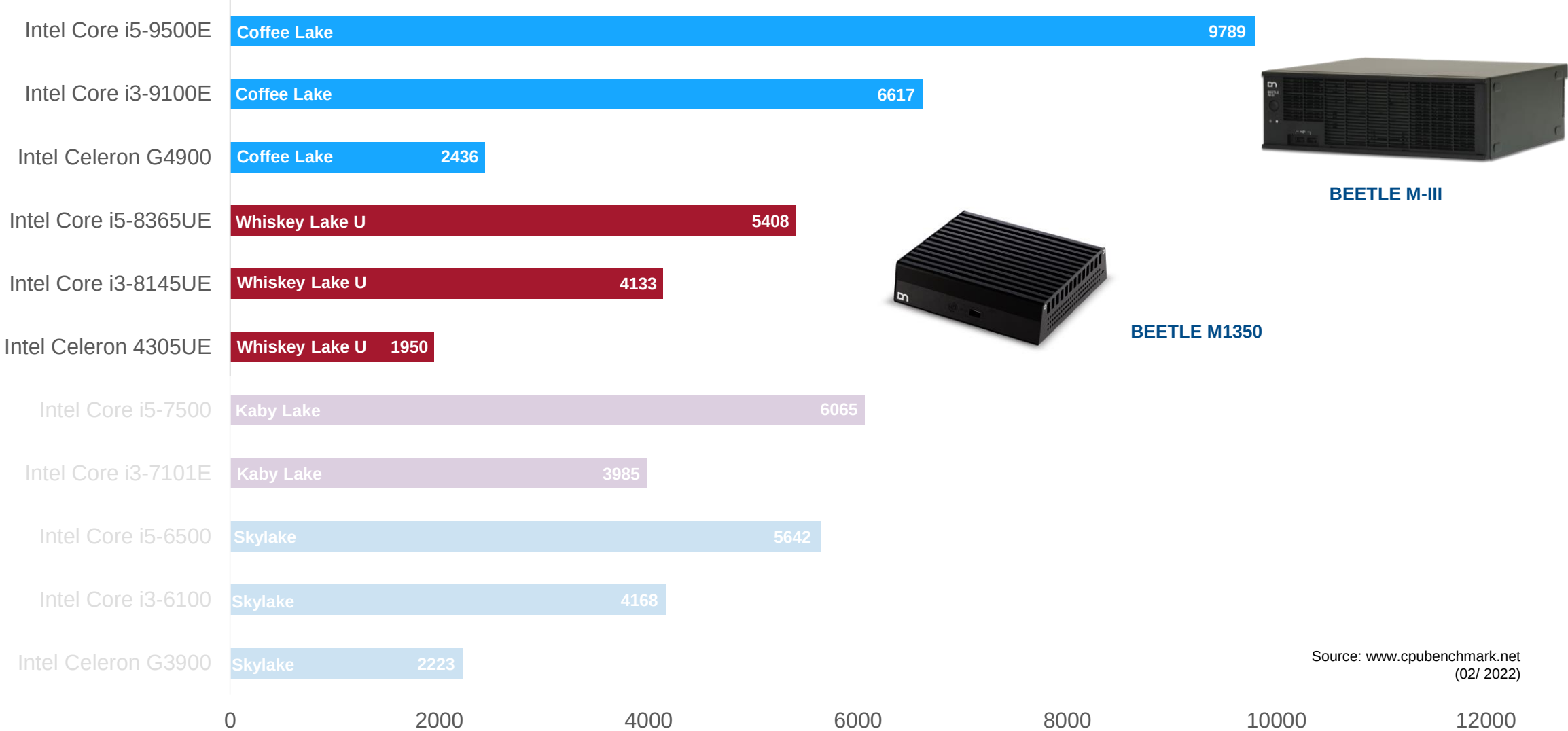
Specifications

Processors	- Intel Whiskey Lake U mobile processors - Celeron 4305UE, Core i3-8145UE und Core i5-8365UE
Onboard interfaces	1x USB-C (with PD 5V/12V + DisplayPort) 1x USB-C (with PD 5V/12V + DisplayPort + PD 24V for printer resp. downlink to I/O hub) 2x USB 3.0 + 3x USB 2.0 1x cash drawer RJ12 2x RS232 (configurable to 0V or 5V & 12V) 1x Ethernet LAN RJ45
Main memory	4 GB - 32 GB DDR4 RAM
Storage device	2x M.2 SSD / RAID onboard feature
Integrated features	TPM option
Operating system	- Windows 10 IoT Enterprise 2019 LTSC - CentOS Linux

Power supply	24VDC / 120W, external PSU, Efficiency Level VI
Dimensions	182 x 162 x 52 mm (WxDxH)



DN Series™ BEETLE M – PassMark Comparison



Displays



D1101 – Specification of the 10.1“ Widescreen Model

Highlights

- ✓ Industry-grade but stylish product design
- ✓ Robust aluminum chassis
- ✓ Anti-glare display surface
- ✓ Single cable USB-C and DVI/PanelLink2 interfaces
- ✓ VESA 75 compatible
- ✓ Low power consumption
- ✓ 10-point projected capacitive touch screen option



Specifications

Display Size	• 10.1" LED-backlit LCD, 16:10
Resolution	• 1.280 x 800 pixels
Colors	• 16 Mio.
Brightness	• 350 cd/m2
Contrast	• 800:1
Viewing Angle	• 85 / 85 (H) - 85 / 85 (V)
Touch Screen	• Projected capacitive multi-touch, 10-point
VESA Standard	• 75
Audio (integrated)	• no

Interfaces Onboard	• 1x USB-C (with PD 5V/12V + DisplayPort) • 1x DVI/PanelLink2
Power	• 12 VDC
Power Consumption	• Typ. 4.7W, Standby 0.6W (PCT) / 0.4W (n-touch), Soft-off: 0.4W
Installation	• VESA 75 to adapt to BEETLE A Series or any desktop stand or pole
Dimensions (WxHxD)	• 249 x 178 x 35 mm (display unit w/o stand)
Active Screen Area	• 216.9 mm (horizontal) x 135.6 mm (vertical)

D1104 – Specification of the 10.4“ / 4:3 model

Highlights



Specifications

Display Size	• 10.4" LED-backlight LCD, 4:3	Interfaces Onboard • 1x USB-C (with PD 5V/12V + DisplayPort) • 1x DVI-D/PanelLink2 Power • 12 VDC Power Consumption • Typ. 4.7W, Standby 0.6W (PCT) / 0.4W (n-touch), Soft-off: 0.4W Installation • VESA 75 to adapt to BEETLE A Series or any desktop stand or pole Dimensions (WxHxD) • 245.63 x 203.88 x 34 mm (display unit w/o stand) • xx x xx x xx mm (with stand) Active Screen Area • 211.2 mm (horizontal) x 158.4 mm (vertical)
Resolution	• 800 x 600 pixels	
Colors	• 16 Mio.	
Brightness	• 350 cd/m2	
Contrast	• 700:1	
Viewing Angle	• 85 / 85 (H) - 60 / 70 (V)	
Touch Screen	• Projected capacitive multi-touch, 10-point	
VESA Standard	• 75	
Audio (integrated)	• No	

Highlights

- ✓ Industry-grade but stylish product design
- ✓ Robust aluminum chassis
- ✓ Anti-glare display surface
- ✓ Single cable USB-C and DVI/PanelLink2 interfaces
- ✓ VESA 75 compatible
- ✓ Low power consumption
- ✓ 10-point projected capacitive touch screen option





D1150 – Specification of the 15" / 4:3 Model

Highlights

- ✓ Industry-grade but stylish product design
- ✓ Robust aluminum chassis
- ✓ Anti-glare display surface
- ✓ Single cable USB-C and DVI/PanelLink2 interfaces
- ✓ VESA 100 compatible
- ✓ Low power consumption
- ✓ 10-point projected capacitive touch screen option



Specifications

Display Size	• 15" LED-backlit LCD, 4:3
Resolution	• 1.024 x 768 pixels
Colors	• 16 Mio.
Brightness	• 350 cd/m2
Contrast	• 700:1
Viewing Angle	• 85 / 85 (H) - 85 / 85 (V)
Touch Screen	• Projected capacitive multi-touch, 10-point
VESA Standard	• 100
Audio (integrated)	• Yes, 2W mono

Interfaces Onboard	• 1x USB-C (with PD 5V/12V + DisplayPort) • 1x DVI-D/PanelLink2 • 1x USB-A 2.0
Power	• 12 VDC
Power Consumption	• Typ. 9.0W, Standby 0.6W (PCT) / 0.4W (n-touch), Soft-off: 0.4W
Installation	• VESA 100 to adapt to BEETLE A Series or any desktop stand or pole
Dimensions (WxHxD)	• 339 x 274 x 38 mm (display unit w/o stand) • 339 x 346 x 207 mm (with stand)
Active Screen Area	• 305.13 mm (horizontal) x 229.1 mm (vertical)

D1156 – Specification of the 15.6“ Widescreen Model

Highlights

- ✓ Industry-grade but stylish product design
- ✓ Robust aluminum chassis
- ✓ Anti-glare display surface
- ✓ Single cable USB-C and DVI/PanelLink2 interfaces
- ✓ VESA 100 compatible
- ✓ Low power consumption
- ✓ 10-point projected capacitive touch screen option



Specifications	Display Size	• 15.6" LED-backlit LCD, 16:9	Interfaces Onboard	• 1x USB-C (with PD 5V/12V + DisplayPort) • 1x DVI-D/PanelLink2 • 1x USB-A 2.0
	Resolution	• 1.920 x 1080 pixels	Power	• 12 VDC
	Colors	• 16 Mio.	Power Consumption	• Typ. 9.0W, Standby 0.6W (PCT) / 0.4W (n-touch), Soft-off: 0.4W
	Brightness	• 400 cd/m2	Installation	• VESA 100 to adapt to BEETLE A Series or any desktop stand or pole
	Contrast	• 1000:1	Dimensions (WxHxD)	• 376 x 236 x 38 mm (display unit w/o stand) • 376 x 342 x 207 mm (with stand)
	Viewing Angle	• 85 / 85 (H) - 85 / 85 (V)	Active Screen Area	• 344.16 mm (horizontal) x 193.59 mm (vertical)
	Touch Screen	• Projected capacitive multi-touch, 10-point		
	VESA Standard	• 100		
	Audio (integrated)	• Yes, 2W mono		



D2080 – Specification of the 8“ / 4:3 model

Highlights

- ✓ Industry-grade but stylish product design
- ✓ Durable black synthetic material chassis
- ✓ Anti-glare display surface
- ✓ Single cable USB-C and DVI/PanelLink2 interfaces
- ✓ VESA 75 compatible
- ✓ Low power consumption
- ✓ 10-point projected capacitive touch screen option



Specifications

Display Size	• 8" LED-backlight LCD, 4:3
Resolution	• 800 x 600 pixels
Colors	• 16 Mio.
Brightness	• Min. 210 cd/m2
Contrast	• 700:1
Viewing Angle	• 70 / 70 (H) - 60 / 70 (V)
Touch Screen	• PC-Touch, 10-point • Non-Touch
VESA Standard	• 75
Audio (integrated)	• No

Interfaces Onboard	• 1x USB-C (with PD 5V/12V + DisplayPort) • 1x DVI-D/PanelLink2 • 1x USB-A 2.0 (only pc-Touch)
Power	• 12 VDC
Power Consumption	• Typ.4.0 W
Installation	• VESA 75 to adapt to BEETLE A Series or any desktop stand or pole
Dimensions (WxHxD)	• 198x169x34 mm (display unit w/o stand), active screen area:162x121mm

D2150 – Specification of the 15“ / 4:3 model

Highlights

- ✓ Industry-grade but stylish product design
- ✓ Durable black synthetic material chassis
- ✓ Anti-glare display surface
- ✓ Single cable USB-C and DVI/PanelLink2 interfaces
- ✓ VESA 100 compatible
- ✓ Low power consumption
- ✓ 10-point projected capacitive touch screen as standard



Specifications

Display Size	• 15" LED-backlight LCD, 4:3
Resolution	• 1.024 x 768 pixels
Colors	• 16 Mio.
Brightness	• 350 cd/m2
Contrast	• 1000:1
Viewing Angle	• 85 / 85 (H) - 85 / 85 (V)
Options	• Projected capacitive multi-touch, 10-point
VESA Standard	• 100
Audio (integrated)	• Yes, 2W mono

Interfaces Onboard	• 1x USB-C (with PD 5V/12V + DisplayPort) • 1x DVI-D/PanelLink2 • 1x USB-A 2.0
Power	• 12 VDC
Power Consumption	• Typ. 9.0W
Installation	• VESA 100 to adapt to desktop stand or pole
Dimensions (WxHxD)	• 342 x 2772 x 38 mm (display unit w/o stand)
Active Screen Area	• 304 mm (horizontal) x 228 mm (vertical)

D2156 – Specification of the 15.6“ 16:9 widescreen model

Highlights

- ✓ Industry-grade but stylish product design
- ✓ Durable black synthetic material chassis
- ✓ Anti-glare display surface
- ✓ Single cable USB-C and DVI/PanelLink2 interfaces
- ✓ VESA 100 compatible
- ✓ Low power consumption
- ✓ 10-point projected capacitive touch screen option



Specifications

Display Size	• 15.6" LED-backlight LCD, 16:9
Resolution	• 1.920 x 1080 pixels
Colors	• 16 Mio.
Brightness	• 350 cd/m2
Contrast	• 1000:1
Viewing Angle	• 85 / 85 (H) - 85 / 85 (V)
Touch Screen	• Projected capacitive multi-touch, 10-point
VESA Standard	• 100
Audio (integrated)	• Yes, 2W mono

Interfaces Onboard	• 1x USB-C (with PD 5V/12V + DisplayPort) • 1x DVI-D/PanelLink2 • 1x USB-A 2.0
Power	• 12 VDC
Power Consumption	• Typ. 11 W
Installation	• VESA 100 to adapt to desktop stand or pole
Dimensions (WxHxD)	• 380 x 241 x 38 mm (display unit w/o stand)
Active Screen Area	• 344 mm (horizontal) x 194 (vertical)

D1156 & D2156 differences

Highlights			
Specifications	Display Size	D1150 // D1156 • 15" 4:3 // 15,6" 16:9 (Full HD)	D2150 // D2156 • 15" 4:3 // 15,6" 16:9 (Full HD)
	Housing	• Aluminum	• Synthetic material
	Housing Colour	• Silver & Black	• Black
	Modularity	• Upgradeable to AiO PC	• Monolithic non upgrade option
	OSD buttons	• Yes, menu, </>, Power on/off	• No, menu only via software tool available
	Status LED & Activity LED	• Yes	• No Status LED, only Activity LED with 4 status
	Loudspeaker	• Mono, 2W	• Mono, 2W
Options		• PC-Touch, 10 points • Non-Touch	• PC-Touch, 10 points. Non-Touch not available.
Automatic Brightness Control		• Ambient Light Sensor ALS and Presence Sensor (only D1156)	• No

DN POS & Peripherals | Products at a Glance – Current Status

							
BEETLE A1050 15.0" WHL fanless & sealed	BEETLE A1070 15.0" CL Fan-operated	BEETLE A1150 15.6" WHL fanless & sealed	BEETLE A1170 15.6" CL Fan-operated	BEETLE A12xx 18.5" CL Fan-operated	BEETLE M1350 WHL fanless	BEETLE /M-III R CL Fan-operated	
							
D1064 2-line Display SBCS: 5x7	D2080 8.0" Display 800 x 600	D2150 15" Display 1.024 x 768	D2156 15.6" Display 1.920 x 1.080	D1104 10.4" Display 800 x 600	D1101 10.1" Display 1.280 x 800	D1150 15" Display 1.024 x 768	D1156 15.6" Display 1.920 x 1.080
							
P1200		NFC Reader		MSR	iButton	2D Barcode	Fingerprint Reader



Tool Beetle Power Consumption

Excel ribbon: File, Home, Inserisci, Layout di pagina, Formule, Dati, Revisione, Visualizza, Automate, Guida. Home ribbon includes Font (Arial, 10, Bold, Italic, Underline, Color, Background Color), Paragraph (Text Alignment, Orientation, Indentation, Spacing), Numbers (General, Number, Percentage, Currency, Text, Fraction, Date and Time, List, Text Box), Styles (Conditional Formatting, Table, Cell Styles), Cells (Insert, Delete, Format), and Modifications (Sort & Filter, Find & Select, Conditional Formatting, Table, Cell Styles, Cells, Modifications).

Formulas: AC10, Celeron 4305UE

Load profile

Category	Value
Soft off	20 %
Standby / sleep	20 %
Idle	20 %
Performance	40 %
Country	Italy
Costs per kWh	0,22 EUR
Lifetime in years	5
kg CO2 per kWh	0,40

Print

Modular

Configuration	System	Motherboard	Processor	Storage	AMT	Operator Display	Customer Display	Printer	Others (in W)	Soft off (in W)	Standby / Sleep (in W)	Idle (in W)	Performance (in W)	Power consumption per year	Lifetime energy consumption
Configuration 1	BEETLE_M_II_plus	G41_M_II_plus	Celeron E1500 M_II_plus G41	3.5" HDD	no	BA93	BA63	None	0	1,9	2,9	59,2	91,9	434,44 kWh	2.172,21 kWh
Configuration 2	BEETLE_M_III	K2_M_III	Celeron G1820	3.5" HDD	no	BA93	BA64-2	None	0	3	45	74		349,76 kWh	1.748,82 kWh
Configuration 3	BEETLE_M_III	R_M_III	Celeron G4900	3.5" HDD	no	BA93	BA64-2	None	0	3	32	68		305,93 kWh	1.529,67 kWh
Configuration 4	BEETLE_M1350	Whiskey_Lake_M1350	Celeron 4305UE	SSD	no	BA93	BA64-2	None	0	3	26	43		206,88 kWh	1.034,39 kWh

ReadMe, Modular, All-in-one

Pronto, Accessibilità: verifica

