

VES-L0806

8" Intel Alder LAKE N100 Rugged Tablet

Features

- Intel Alder LAKE N100
- Intel® UHD Graphics
- 8-inch Display
- 1920 x 1200 FHD + Resolution
- 550 nits Brightness
- Wi-Fi 6 & BT 5.2 (BLE)
- Support 5G
- 5-Point Capacitive Multi-Touch Screen
- Strengthen Touch Glass
- Rugged Design
- Windows 11 Pro

Appearance



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Revision Table

Date	Revision	Content	By
2025/7/31	0.1	First Draft	Devin

ACT POWER TAIWAN
Preliminary

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Specification

LCD Panel	
LCD Size	8-inch IPS
Backlight	LED
Resolution	1920 x 1200
Brightness	550 nits
Touch Glass	5-Point Capacitive Multi Touch Screen, 7H Tempered Glass, G+G
Camera	Front 5.0MP; Rear 8.0MP
System	
CPU	Intel Alder LAKE N100
Memory	8GB LPDDR5
Storage	128GB EMMC
Wi-Fi Module	Intel AX101 (1216 1x1)
Interfaces	1x USB-A 3.0 1x USB-C 3.0 (Data & Charging) 1x HDMI 2.0 Mini 1x TF Card 1x SIM Card 1x 3.5mm Earphone Jack 1x 12 PIN Pogo Pin
Buttons	Power (Yellow) Volume + Key Volume - Key P1 Key (HOME Key) Function Key (Barcode Scanning, Connected to GPIO)

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Specification

Connectivity	WIFI 6 802.11(a/b/g/n/acR2/ax 1x1) Frequency: 2.4G + 5.8G Dual-Band Bluetooth 5.2 (BLE) 5G: NR SA: n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 77/ 78/79 4G LTE: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26 /B28/B30/B66/B70/B71 LTE-TDD B34/B38/B39/B40/B41/B42/B43/B48
GNSS	Supports GPS/GLONASS
NFC	Optional: NXP300/NFC 13.56MHz Supports 14443A/14443B/15693/18092/mifare protocols of ISO/IEC
2D Scanner (Optional)	Optical Resolution: 5mil Scanning Speed: 50 Times/s Supported Barcode Types: PDF417, MicroPDF417, Data Matrix, Data Matrix Inverse Maxi Code, QR Code, Micro QR, QR Inverse, Aztec
Speaker	2x Built in 8Ω/1W Waterproof Speaker
Microphone	Sensitivity: -42db, Output Impedance 2.2kΩ
OS	Windows 11 Pro
Battery	5000mAh, Removable Polymer Lithium-Ion Battery
RTC	3V 1mAH Rechargeable Surface-Mount
G-Sensor	Support
Power	DC12V / 4A (Male Plug Outer Diameter 5.5mm)
Mechanical	
Color	Black
Dimension	236.7 x 155.9 x 20.8 mm (W x L x H)
Weight	818g
Material	Polycarbonate (PC) & Thermoplastic Polyurethane (TPU)

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Environmental Compliance

Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°C
Humidity	95% @25°C, Non-Condensing
IP Rating	IP65

Environmental performance may vary according to the integration method or final integration scenario.

Reference Photo



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Deliverables

1	8" Intel Alder LAKE N100 Rugged Tablet
2	12V 4A Power Adapter

Ordering Information

Model Name	Description	Unit
VES-L0806	8" Intel Alder LAKE N100 Rugged Tablet	1

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