

ARC-15W42

15.6" 13th Generation Intel® Core™ 3/5/7 Processors Fanless Rugged Touch Panel PC with IET Expansion



Product Features

- Intel® 13th Gen Raptor Lake-PS Core™ 3/5/7 Processor (LGA1700 Socket Type)
- One 262-pin SODIMM socket max. up to 32GB DDR5 4800MHz
- Dual Intel Gigabit LAN
- Support Wi-Fi / BT / 4G / 5G (by option)
- Available expansion for audio, USB, COM, HDMI, PCIe, GPIO, CAN bus
- With panel mount kits included
- Fanless operation from -10°C ~ 50°C (14°F ~ 122°F)
- Full flat front panel with projected capacitive touch supports multi touch
- 3 x USB3.2, 1 x USB2.0, 1 x USB Type C, 1 x COM
- 3 x M.2 slots (Key-B 2242/3052/2280, Key-E 2230, Key-M 2280)
- Wide voltage +12V ~ +24V input, ErP power
- IP65 compliant front panel, IP41 rear box
- TPM 2.0 function

Specification

System Information

Processor	Intel® 13th Gen Raptor Lake-PS Core™ 3/5/7 Processor (LGA1700 Socket Type) Intel® Core™ 3 processor 100UL (10M Cache, up to 4.50 GHz) Intel® Core™ 5 processor 120UL (12M Cache, up to 4.60 GHz) Intel® Core™ 7 processor 160UL (12M Cache, up to 5.20 GHz)
System Memory	1 x 262-pin SODIMM socket max. up to 32GB DDR5 4800MHz
I/O Chipset	EC ITE IT8528E
Watchdog Timer	H/W reset, 1sec. ~ 65535min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU & system temperature and voltage
TPM	Onboard NuvoTon NPCT754AABYX support TPM 2.0
SBC	HID-2340 SBC
CPU Cooler (Type)	Fanless heatsink

Other	7 x Knockouts for antenna mounting *5 from rear cover + 2 from IET bracket
Expansion	
Expansion	1 x M.2 Key B 3042/3052/2280 (PCIe, USB3, SATA) for 4G/5G/Capture Card 1 x M.2 Key E 2230 (PCIex1, USB2.0) for WIFI 1 x M.2 Key M 2280 (PCI-e x4) slot for storage 1 x 80-pin IET interface
Storage	
Storage	1 x M.2 Key M 2280 (PCI-e x4) slot for storage)
Display	
Graphic Chipset	Intel® Raptor Lake-PS integrated graphics
Spec. & Resolution	HDMI: Max. Resolution 4096x2160 @ 24Hz (optional by IET module)
Audio	
Audio Codec	Realtek ALC888S
Speaker Output	2 x 2W
Ethernet	
LAN Chipset	1 x Intel® I225LM 2.5 Gigabit Ethernet 1 x Intel® I226LM 2.5 Gigabit Ethernet
Ethernet Interface	Intel® I225LM: 10/100/1000/2.5G Base-Tx GbE compatible Intel® I226LM: 10/100/1000/2.5G Base-Tx GbE compatible
Power Requirement	
DC Input	+12V ~ +24V
DC Input Connector	Lockable DC Jack (default) Optional for phoenix connector
ACPI	Single power ATX support S0, S3, S4, S5 and ACPI 3.0 compliant
Software Support	
OS	Win10 / Win11 / Linux
Certification	
Certification Information	CE / FCC Class A / VCCI

Panel

LCD Size	15.6", 16:9
Display Type	FHD
Resolution	1920 x 1080
Pixel pitch	0.17925mm(H) x 0.17925mm(V)
Luminance	350 cd/m2
Contrast ratio	800
Viewing angle	89 (U), 89 (D), 89 (L), 89 (R)
Response time	11 ms
Backlight	LED
Touch Type	Projective capacitive multi-touch up to 10 points
Touch Light Transmission	88%
Touch Controller	EETI

External I/O

USB Port	3 x USB3.2, 1 x USB2.0, 1 x USB Type C
LAN Port	2 x RJ-45
COM Port	1 x RS-232/422/485

System Control

LED Indicator	HDD LED, power LED
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Mechanical & Environmental

Operating Temp.	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temp.	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	40°C @ 95% Relative humidity, non-condensing
Dimension (W x L x H)	391.21 x 293.21 x 61 mm
Weight	3.7 Kg
Vibration Test	With SSD/M.2 SSD : 2Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 30mins/axis
Shock Test	Operating with SSD/M.2 : MIL-STD-810G, method 516.6, procedure I, functional shock=20G
Drop Test	ISTA 2A, IEC-60068-2-32 Test:Ed

IP Rating	Front panel IP65 Back cover IP41
Mounting Kit	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm Panel mount with mounting kits
Power Mode	AT/ATX (ATX is default)
System Fan	Fanless
Construction - Front	Die casting with cover lens
Construction - Rear	Black die casting

Component

Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W adapter (19V @ 3.78A adapter) AC-DC adapter
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Ordering Information

ARC-15W42-100-B1R

15.6" 1920x1080 Industrial Touch Panel PC, ErP Design, PCAP Multi Touch(ALC888S)
13th Gen Core™ 3 processor 100UL (10M Cache, up to 4.50
GHz)/2GLAN/1COM/4USB/TypeC/SPK/12~24V input/12V Adapter

ARC-15W42-120-B1R

15.6" 1920x1080 Industrial Touch Panel PC, ErP Design, PCAP Multi Touch(ALC888S)
13th Gen Core™ 5 processor 120UL (12M Cache, up to 4.60
GHz)/2GLAN/1COM/4USB/TypeC/SPK/12~24V input/12V Adapter

ARC-15W42-160-B1R

15.6" 1920x1080 Industrial Touch Panel PC, ErP Design, PCAP Multi Touch(ALC888S)
13th Gen Core™ 7 processor 160UL (12M Cache, up to 5.20
GHz)/2GLAN/1COM/4USB/TypeC/SPK/12~24V input/12V Adapter

Optional IET Module list:

ACC-ARC-USB-01R

4 x USB 3.0 IET module for ARC-1535/38

ACC-ARC-AUDIO-01R

HDMI + 5.1 CH audio IET module for ARC-1535/38

ACC-ARC-MPCIE-02R

HDMI + MPCIE w/SIM IET module for ARC-1535/38

ACC-ARC-COM-01R

2 x Isolated RS-232 IET module for ARC-1535/38

ACC-ARC-COM-02R

3 x RS-232 IET module for ARC-1535/38

ACC-ARC-COM-03R

2 x RS-232 + USB IET module for ARC-1535/38

ACC-ARC-COM-04R

2 x RS-232 + LAN IET module for ARC-1535/38

ACC-ARC-GPIO-01R

12-bit GPIO + 2-pin CAN bus IET module for ARC-1535/38

ACC-ARC-OBDDII-01R

OBDDII - CAN bus IET module for ARC-1535/38 (OBDDII/EOBD for small vehicle)

ACC-ARC-OBDDII-02R

OBDDII - CAN bus IET module for ARC-1535/38 (J1939J1708 for large vehicle)

ACC-ARC-OBDDII-03R

OBDDII - CAN bus IET module for ARC-1535/38 (ISO15765-4 for special large vehicle)

E1702031833R

USA Power Cord

E1702031000R

EU Power Cord

E1702031834R

Japan Power Cord

E1702031830R

UK Power Cord

E1702031831R

Australia Power Cord