

ARC-1037

10.4" Intel® Processor N97 Fanless Rugged Touch Panel PC with IET Expansion



Product Features

- 10.4" XGA LCD with 5-wire resistive touch
- 1 x 262-pin DDR5 4800MHz SO-DIMM socket, supports up to 16GB max (non ECC only)
- 1 x USB type C (w/ PD(20V/3A input), USB3.2(Gen2x1, 10Gbps, 5V/3A output), display function)
- 2 x M.2 slots (Key-B 2242/3042/3052 with SIM slot1, Key-E 2230)
- Rugged design for vibration & shock protection
- Wide range DC power input +12 ~ 24Vdc
- IP65 compliant front panel, IP41 rear box
- Intel® Processor N97
- 2 x LAN (2.5GbE), 2 x COM, 2 x USB3.2
- Available expansion for audio, USB, COM, HDMI, MPCle, GPIO, CAN bus
- Wi-Fi / BT / 4G / 5G (by option)
- Fanless operation
- Service window for storage and memory module
- TPM2.0

Specification

System Information	
Processor	Intel® Processor N97, 6M Cache, up to 3.6 GHz
System Memory	262-pin DDR5 4800MHz SO-DIMM socket, supports up to 16GB max (non ECC only)
Watchdog Timer	H/W reset, 1sec. ~ 65535sec
H/W Status Monitor	Monitoring CPU & system temperature monitoring and voltages monitoring
TPM	TPM 2.0 (by default)
SBC	ARC-ADLN
CPU Cooler (Type)	Fanless heatsink

Expansion	
Expansion	1 x M.2 (Key-B, 2242/3042/3052, SATAIII, USB3.2 Gen1x1(default, 5Gbp/s)) or PCIe1x1(via OEM BIOS request), USB2.0, SIM slot for LTE cards (*not support PCIe2 device) 1 x M.2 (Key-E, 2230, PCIe1x1, USB2.0) 1 x 80-pin IET interface

Storage	
Storage	1 x 2.5" Drive bay(7mm HDD restricted)
HDD/ SSD	1 x SATA3
Other Storage Device	1 x M.2 Key-B 2242/3042/3052 for M.2 SATAIII SSD

Audio

Audio Codec Realtek ALC888S

Audio Interface Speaker out

Speaker Output 2 x 2W

Ethernet

LAN Chipset 2 x Intel® I226IT 2.5 Gigabit Ethernet

Ethernet Interface 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 B / UKCA / VCCI

Panel

LCD Size 10.4" 4:3

Display Type XGA

B/L Inverter/Converter LCD built in

Resolution 1024 x 768

Pixel pitch 0.0685mm(H) x 0.2055mm(V)

Luminance 500 cd/m²

Contrast ratio 1200

Viewing angle 88 (U), 88 (D), 88 (L), 88 (R)

Response time 25 ms

Backlight LED

Touch Type 5 wires resistive

Touch Light Transmission 80 %

Touch Controller Onboard USB touch (PenMount)

External I/O

USB 2 x USB3.2 (1 x double deck, type A)
1 X USB type C (w/ PD(20V/3A input), USB3.2(Gen2x1, 10Gbps, 5V/3A output), display function)

LAN Port 2 x RJ-45

COM Port

1 x RS-232/422/485
1 x RS-232

Internal I/O

Expansion	1 x M.2 (Key-B, 2242/3042/3052, SATAIII, USB3.2 Gen1x1(default, 5Gbp/s)) or PCIe1(via OEM BIOS request), USB2.0, SIM slot for LTE cards (*Not support PCIe2 device) 1 x M.2 (Key-E, 2230, PCIe1, USB2.0) 1 x 80-pin IET interface
DIO	12-bit GPIO + 2-pin CAN bus (by ARC-BYT DB-E)
Other	3 x Knockouts for antenna mounting

System Control

LED Indicator	HDD LED, power LED
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Mechanical & Environmental

Operating Temp.	0°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)	259.6 x 195.8 x 46mm
Weight	2.3 Kg
Vibration Test	With SSD/mSATA : 2.24Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis
Shock Test	Operating with SSD/CFast/mSATA : 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
Power Mode	AT/ATX (ATX is default)
System Fan	Fanless
Construction - Front	Silver aluminum
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-1037-N97-A1R
10.4" 1024x768 500nits Industrial Touch Panel PC, ErP Design
Intel Processor N97 3.6GHz CPU/8GDDR5/2GLAN/2COM/2USB3/USB typeC/SPK/12~24V
input/72W Adapter

ACC-ARC-USB-1R
4 x USB 3.0 Kit for ARC Series

ACC-ARC-AUDIO-1R
HDMI + 5.1 CH Audio Kit for ARC Series

ACC-ARC-MPCIE-1R
HDMI + MPCIE w/SIM Kit for ARC Series

ACC-ARC-COM-1R
2 x Isolated RS-232 Kit for ARC Series

ACC-ARC-COM-2R
3 x RS-232 Kit for ARC Series

ACC-ARC-COM-3R
2 x RS-232 + USB Kit for ARC Series

ACC-ARC-COM-4R
2 x RS-232 + LAN Kit for ARC Series

ACC-ARC-GPIO-1R
12-bit GPIO + 2-pin CAN Bus Kit for ARC Series

ACC-ARC-OBDDII-1R
OBDDII - CAN Bus Kit for ARC Series (OBDDII/EOBD for Small Vehicle)

ACC-ARC-OBDDII-2R
OBDDII - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle)

ACC-ARC-OBDDII-3R
OBDDII - CAN Bus Kit for ARC Series (ISO15765-4 for Special Large Vehicle)

E1702031835R
USA Power Cord

E170203183DR
EU Power Cord

E170203183BR
Japan Power Cord

E170203183ER
UK Power Cord

E1702031800R
Australia Power Cord