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, MPCIe, 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 PCIex1(via OEM BIOS request), USB2.0, SIM slot for LTE cards (*not support PCIex2 device) 1 x M.2 (Key-E, 2230, PCIex1, 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
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
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 PCIex1(via OEM BIOS request), USB2.0, SIM slot for LTE cards (*Not support PCIex2 device) 1 x M.2 (Key-E, 2230, PCIex1, 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

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

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-OBDII-1R OBDII - CAN Bus Kit for ARC Series (OBDII/EOBD for Small Vehicle)
	ACC-ARC-OBDII-2R OBDII - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle)
	ACC-ARC-OBDII-3R OBDII - 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