

HMI Turnkey Solution

ARC Rugged Human Machine Interface with iFace

ARC Series Rugged HMI Panel PC



iFace-Designer



- > ARC Rugged Human Machine Interface with iFACE Designer software
- > Onboard Intel Bay trail/ Apollo Lake/ Skylake-U/ KabyLake-U
- > Full Flat Front Panel with Projected Capacitive Touch Supports Multi Touch
- > Intel Bay trail/ Apollo Lake platform with 1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB
- > Intel Skylake-U/ KabyLake-U platform with 1 x 260-Pin DDR4 2133MHz SO-DIMM up to 16 GB
- > Wide-coverage PLC Driver Database. Support standard protocols and 90%+ mainstream PLC drivers
- > Supports Modbus RTU/TCP/ASCII, OPC UA, Restful API, MQTT; Mitsubishi, Siemens, Rockwell, Omron, CODESYS... PLC drivers
- > Splendid Vector Graphic Widget Library. Support Push Buttons, Switches, Lamps, Meters, Bars, Sliders, Charts,... etc
- > Diversified Smart Functions. Supports Alarm, Macro, Data Log, Scheduler, Recipe, Report, VNC, Security, VPN, FTP, Wi-Fi AP Station, Multi-Languages, Watchdog...software functions
- > Rich I/Os, 2 LAN, 2 COM, 4 USB, SIM Card Slot, Swappable Drive Bay, Speaker out for Flexible Expansion Modules
- > Rugged Design for Vibration & Shock Protection, Cableless Design
- > Fanless Operation from -10 ~ 50°C
- > Wide Voltage +12V ~ +26V Input, ErP Power
- > Available Expansion for Audio, USB, COM, HDMI, PCIe, GPIO, CAN Bus
- > Service Window, Easy to Install Memory Module
- > IP65 Compliant Front Panel, IP41 Rear Box
- > Front panel: IP65, Rear: IP41(except I/O)
- > With Panel Mount kits included
- > TPM 1.2/2.0 Function (Optional by Model)

+ Spec

System Information	
Processor	Onboard Intel Bay trail/ Apollo Lake/ Skylake-U/ KabyLake-U
System Memory	Intel Bay trail/ Apollo Lake platform with 1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB Intel Skylake-U/ KabyLake-U platform with 1 x 260-Pin DDR4 2133MHz SO-DIMM up to 16 GB
I/O Chipset	EC ITE IT8528E
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec./1sec.step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
SBC	ARC-BYT/ARC-APL/ARC-SKLU/ARC-KBLU
CPU Cooler (Type)	Fanless Heatsink
Expansion	
Expansion	1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe 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 mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe
Panel	
LCD Size	10.4"/12.1"/15"/ 17" 4:3 10.1"/ 15.6" / 21.5" 16:9
B/L Inverter/Converter	LCD built in
Backlight	LED
Touch Type	Projective Capacitive Multi-Touch supports up to 10 points 5-Wire Resistive Touch
I/O	
USB Port	4 x USB (2 x Double deck)
COM Port	1 x RS-232/422/485, selectable by BIOS, RS-485 supports Auto Flow, Pin-9 selected by Ring/+5V/+12V) 1 x RS-232
SATA	1 x SATA III
DIO	16-bit GPIO
Expansion	1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe 1 x Optional by IET module
Other	3 x Knockouts for Antenna Mounting
System Control	
LED Indicator	HDD LED, Power LED
DC In/Out Characteristics	
Power Type	AT/ATX
Display	
Graphic Chipset	Onboard Intel Bay trail/ Apollo Lake/ Skylake-U/ KabyLake-U SoC integrated Graphics

	Supports optional dual display
Spec. & Resolution	HDMI: Max. resolution 4096x2160 @ 24Hz (Optional by IET module)
Audio	
Audio Codec	Realtek ALC888S
Audio Interface	speaker out
Speaker Output	2 x 2W
Certifications	
Certification Information	CE / FCC Class B
Ethernet	
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x Intel Lan Port
Power Requirement	

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DC Input	DC +12V ~ +26V(9~36 for APL), wide voltage single power input TVS component for surge protection Reverse current/voltage protection
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
Power Mode	AT/ATX
Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter
Mechanical & Environmental	
Operating Temperature	Wide Temp (E3845/E3950 -20~+60°C, i5-6300U/N3350 -10~+50°C) for A model Wide Temp (J1900, i5-6300U, N3350, J3455 -10~+50°C) for B model
Storage Temperature	-20°C ~ 60°C
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (W x L x H)	By Model
Vibration Test	With SSD/mSATA : 1.5Grms, 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
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 Requirement	DC +12V ~ +26V(9~36 for APL), wide voltage single power input TVS component for surge protection Reverse current/voltage protection
Power Mode	AT/ATX (ATX is default setting)
System Fan	Fanless
Construction - Front	Die Casting with Cover lens
Construction - Rear	Black Die Casting
Dimension	By Model
Relative Humidity	0~90% Relative Humidity, Non-condensing
Fanless	Yes
Drop	ISTA 2A, IEC-60068-2-32 Test:Ed
Software Support	
OS Information	Windows 10, Linux Operating System for iFACE Editor: • Windows 7 – iFACE Designer 1.6.71 • Windows 10 64 bits – iFACE Designer 2.0.01 Operating System for iFACE Runtime: • Windows 10 • Ubuntu 16

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