BPC-2403U

Din rail/wall mount industrial computer, wall mount optional, 2COM, 2x GLAN, 4x USB, 16 GPIOs, 1HDMI, optional Wifi 4G 5G.

Specification

Model	BPC-2403U	
CPU	Intel® Core™ i7/i5/i3/Pentium®/Celeron® processors	
Chipset	Intel® SOC	
BIOS	AMI BIOS	
Memory	1 x SO-DIMM DDR4 2400/2666/2933/3200MHz，Max 32GB	
Video	1 x HDMI，Intel® HD Graphics controller	
Network	2 x GLAN (LAN1：Intel i210AT，LAN2：Intel i219LM)	
Storage	1 x m.2 2280 SATA/NVMe SSD slot	
USB	4 x USB3.2	
COM	2xCOM (COM1-2 RS232/422/485 BIOS setting)	
Expansion	1 x m.2 2230 E-Key supports WIFI module，1 x m.2 3052 B-Key supports 4G/5G module and SIM slot	
Audio	Realtek ALC897 HD audio，1x Line-out，1x MIC-in	
GPIO	Max16 GPIOs optional, standard GPIOs directly from the mainboard, or opt for opto-isolated rugged GPIOs.	
Watchdog	supports system reboot from 1 to 255 seconds	
Power	DC 9-36V wide voltage input with screw-lock power terminals	
OS support	Windows 7/10/11/ Linux/ Domestically such as Tongxin Kylin, etc.	
Environment	Operating temperature:	-10°C ~60°C;
	Operating humidity:	0% ~ 95%;
	Storage temperature:	-20°C ~ 70°C;
	Storage humidity:	30% ~ 60%;
	Vibration with SSD:	5Grms/5~500Hz/random;
	Shock with SSD:	50G/half-sine/lasts 11ms;

! Operating this device in a residential environment may cause radio interference.

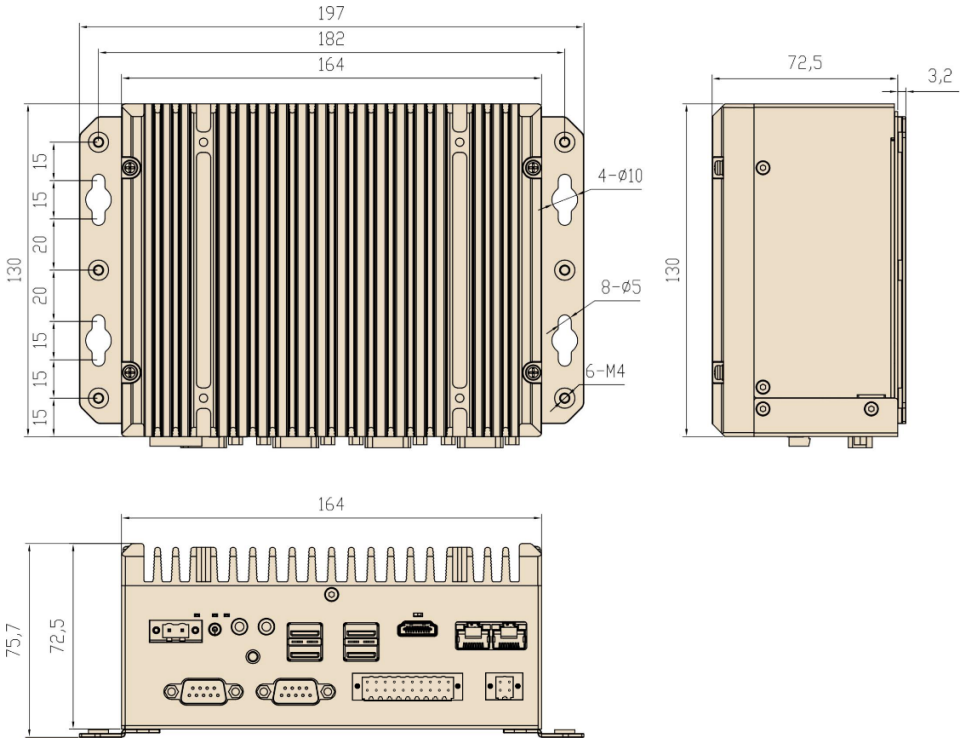
BPC-2403U

Ordering information

Model	Description
BPC-2403U	Din rail industrial computer, wall mount optional, 2COM, 2x GLAN, 4x USB, 16 GPIOs, 1HDMI, DC 9-36V

Dimensions Diagram

Unit: mm



16 GPIO Terminal

Mode 1.									
19	17	15	13	11	9	7	5	3	1
GPIO12	GPIO11	GPIO10	GPIO9	GPIO4	GPIO3	GPIO2	GPIO1	GND	V5S
20	18	16	14	12	10	8	6	4	2
GPIO16	GPIO15	GPIO14	GPIO13	GPIO8	GPIO7	GPIO6	GPIO5	GND	DC_OUT

Optional Mode 1, Weak GPIO mode, GPIO operating voltage is 3.3V; Pin1 is V5S, Pin2 defined as DC_OUT is off by default, can be jumper-set to DC_IN and shorted to the input power.

Mode 2.									
19	17	15	13	11	9	7	5	3	1
DI7	DI6	DI5	DI4	DI3	DI2	DI1	DI0	DIGND	DICOM
20	18	16	14	12	10	8	6	4	2
DO7	DO6	DO5	DO4	DO3	DO2	DO1	DO0	DOGND	DC_OUT

Optional Mode 2, Strong GPIO Mode: Both DI and DO are optocoupler-isolated. DI can withstand power up to 80V, effectively resisting destructive interference in industrial environments. DI operating voltage needs to be greater than 5V, effectively filtering out noise and interference from industrial settings to prevent false operations. The optocouplers are all bidirectional and support NPN and PNP modes. Among them, DI0-DI3 are high-speed optocouplers, while DI4-DI7 are standard-speed optocouplers. DO is connected to an OC gate amplification circuit, with an output current of up to 500mA.

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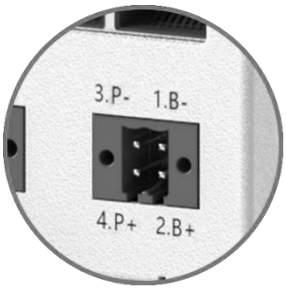
FP Terminal Description



Number	3	1
Description	Power Led P-	Switch B-
Number	4	2
Description	Power Led P+	Switch B+

Power light P+ defaults to 3.3V. The current version can switch to 5V with a jumper, and future versions will change from 5V to 12V, making it convenient to connect to remote buttons with lights.