

# BF-PC-BYT-0021

Intel Celeron N2930/E3826/E3815 4/2/1 CPU  
Fanless Embedded Industrial PC, VGA/HDMI  
2LAN, 2USB3/2, 2COM, Wide 9-36V DC-IN



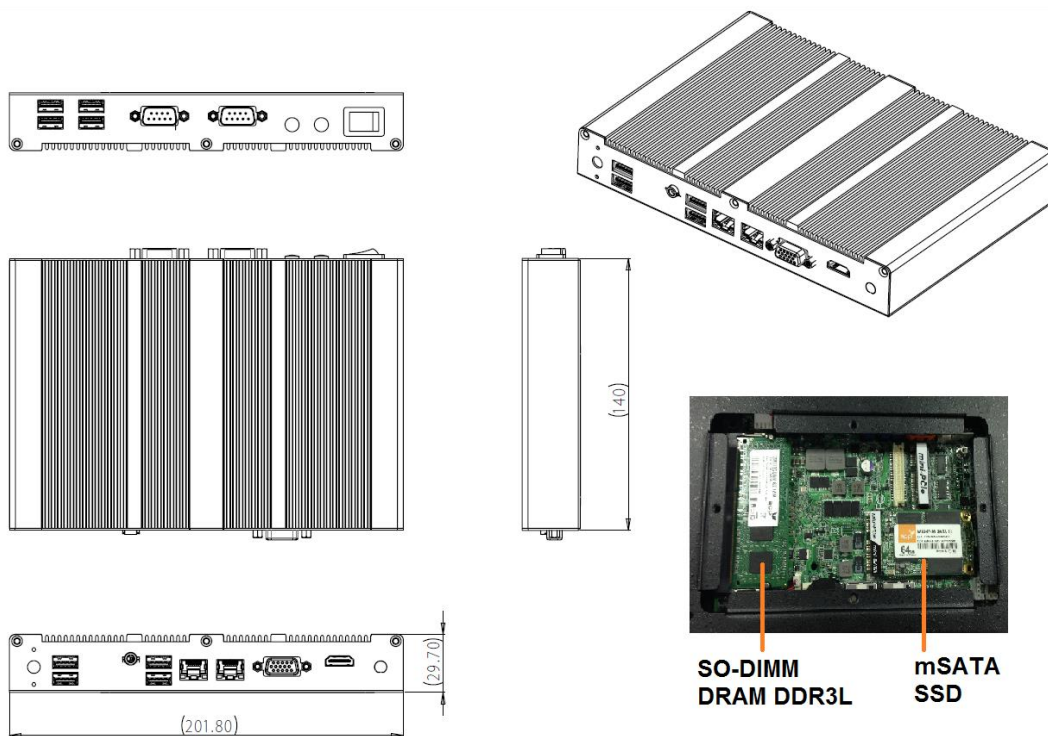
## Features

- With Intel Bay Trail-M Celeron Quad-Core N2930 1.86GHz CPU
- With Baytrail E3826 dual core, E3815 single core 1.46GHz CPU
- Highly compact, optimized performance and low power system
- Dual independent display VGA/HDMI, Dual Gigabit LAN
- Front bezel COM1/COM2, 4USB2 ( customized more COM ports)
- Wide DC 9-36V Input ( customized 2-pin phoenix connector )
- 0°C ~ 50/60°C operation for harsh environment( based on with 0.7m/s air flow and CPU), maintenance-free
- For digital signage, ATM, Kiosk and self-service applications
- Building, warehouse, traffic and machine automation control system

## Specifications

	CPU	BF-PC-BYT-0021/A /B /C /D	* BF-PC-BYT-0021/E /F	* BF-PC-BYT-0021/G
Processor System	Max. Speed(Core)	1.86GHz(Quad-core)	1.46GHz(Dual-Core)	1.46GHz(Single-Core)
	L2 Cache	2MB	1MB	512KB
	CPU/Power	Celeron N2930	E3826	E3815
	BIOS	AMI 16Mb AMI UEFI with GUI support		
	Power Consumption	7.5W	7W	5W
Expansion Slot	Mini-PCIe	1 x half-size		
	mSATA	1 x Mini-PCIe full-size		
Memory	Specification (SO-DIMM)	1 x DDR3L-1333		
	System Max. Capacity	8GB	8GB	4GB
Graphics	VGA	1xVGA(1920x1200)		
	HDMI	1 x HDMI ( 1920 x 1200)		
Ethernet	Interface Controller	Realtek RTL8111E-VL		
	Connector	2 x RJ-45		
SATA	Max Data Transfer Rate	N/A		
	SATA2	N/A		
System Rear I/O	VGA	1 x DB-15		
	HDMI	1 x HDMI		
	Ethernet	2 x RJ45		
	USB Type A	2 x USB 3.0, 2 x USB 2.0		
	Audio	1 x Audio ports (Line-out)		
	System Power Input	1 x DC-Jack, 9-36Vdc Input ( Option inquiry by 2-pin phoenix connector)		
Option(front bezel)	Option COM3/4	DB-9 by request on front bezel		
	Option GPIO 8-bit	DB-9 by request on front bezel, 4 x GPI + 4 x GPO		
System Front Bezel	Power-On Button	1x Moment button switch to turn-on system		
	System Power LED	1x LED for system power status		
	HDD LED	1x LED for SATA HDD data access status		
	COM Ports	2 x DB-9		
	USB	4 x USB 2.0 type A		
Operation System	Windows XP, XP 64bit	N/A		
	Win 7	Win 7 32-bit, 64-bit		
	Win 8.1, Win 8	Win 8.1/8 32-bit, 64bit		
Watchdog Timer	Output and Interval	System reset, programmable 1 ~ 255 sec/min; 1 sec. or 1min. /step		
Power Requirement	DC Input	9-36Vdc input (option DC12V 50W adapter)		
Environment	Operating Temperature	0~50°C (32~140°F)	0~50°C (32~140°F)	0~60°C (32~140°F)
	Air Flow condition	With 0.7m/s air flow	With 0.7m/s air flow	TBD
	Storage Temperature	-40 ~ 85°C ( -40 ~ 185°F )		
Physical Size	Dimensions	202mm(W) x 140mm(D) x 30mm(H)		
Packing Size	Dimensions	300mm(W) x 250mm(D) x 125mm(H)		
Weight	N.W / G.W.	1.0Kg / 1.5Kg		
Certifications	EMC	CE, FCC Class A to be available soon		

## Dimensions Outlook



## Ordering Information

Part Number	CPU	VGA	HDMI	GbE	USB 3.0	USB 2.0	COM1	COM2	Memory	mSATA	DC-IN
BF-PC-BYT-0021/A	N2930 1.8G	1	1	2	2	6	RS-232/422/485	RS-232	2GB	1	DC-Jack
BF-PC-BYT-0021/B	N2930 1.8G	1	1	2	2	6	RS-232/422/485	RS-232	4GB	1	DC-Jack
BF-PC-BYT-0021/C	N2930 1.8G	1	1	2	2	6	RS-232/422/485	RS-232	2GB	32GB	DC-Jack
BF-PC-BYT-0021/D	N2930 1.8G	1	1	2	2	6	RS-232/422/485	RS-232	4GB	64GB	DC-Jack
*BF-PC-BYT-0021/E	E3826 1.4G	1	1	2	2	6	RS-232/422/485	RS-232	2GB	1	DC-Jack
*BF-PC-BYT-0021/F	E3826 1.4G	1	1	2	2	6	RS-232/422/485	RS-232	4GB	1	DC-Jack
*BF-PC-BYT-0021/G	E3815 1.4G	1	1	2	2	6	RS-232/422/485	RS-232	2GB	1	DC-Jack

\*BF-PC-BYT-0021/A / B / C / D will keep safety stock, BF-PC-BYT-0021/E / F / G will be production after ordering and has long lead time.

## Optional Items

Part Number	Description
BF-VM-BK	BF-PC-BYT-0021 Chassis VESA Mount 75 & Wall Mount Bracket Kits, Black, with Screws ( To be ready soon)
BF-WM-BK	BF-PC-BYT-0021 Wall Mount Bracket Kits, Black, with Screws (To be ready soon)
BF-DM-BK	BF-PC-BYT-0021 DIN RAIL Bracket Kits ( To be ready soon)
SODIMM-DDR3-2GBL / 4GBL	204-Pin SODIMM DDR3-1333, 2GB / 4GB (1.35V)
MSD-M08/ M016 / M032 / M064	mSATA SSD Module MLC, Micro TSOP 20/25mn 8GB / 16GB / 32GB / 64GB ( default)
*MSD-T08/ T016 / T032 / T064	mSATA SSD Module MLC, Toshiba TSOP 19mn, 8GB / 16GB / 32GB / 64GB ( * by request)
BF-DBAE1-60W-DJ	AC-DV 12V 60W Adapter, 90V-264Vac input by C14 socket, DC 12V@5A output with DC Jack connector
BF-DBAE1-50W-2P	AC-DV 12V 50W Adapter, 90V-264Vac input by C14 socket, DC 12V@4.16A output with 2-pin phoneix connector