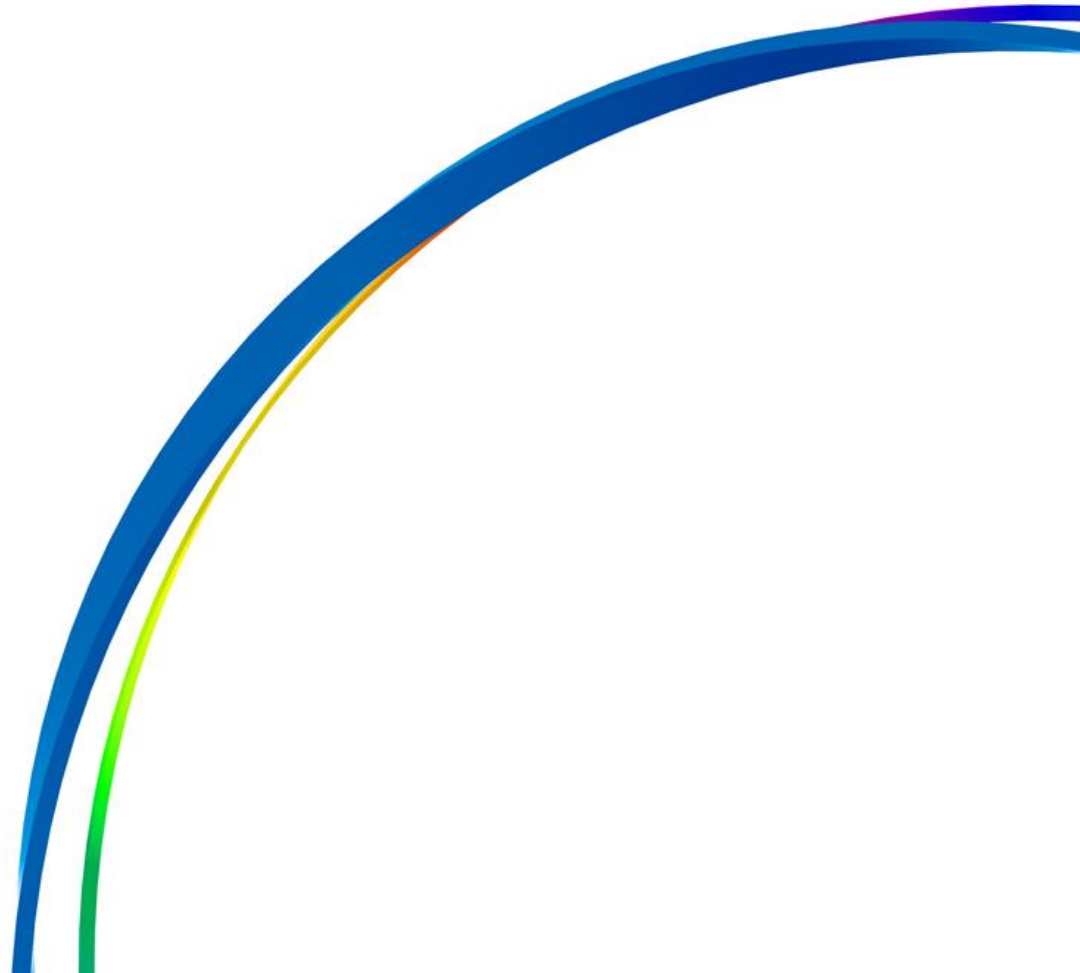


PE4000B Series

~ New BOX-PC~

H2I Project Marketing Department
December 2013



To provide new BOX-PC for simple application by affordable price.

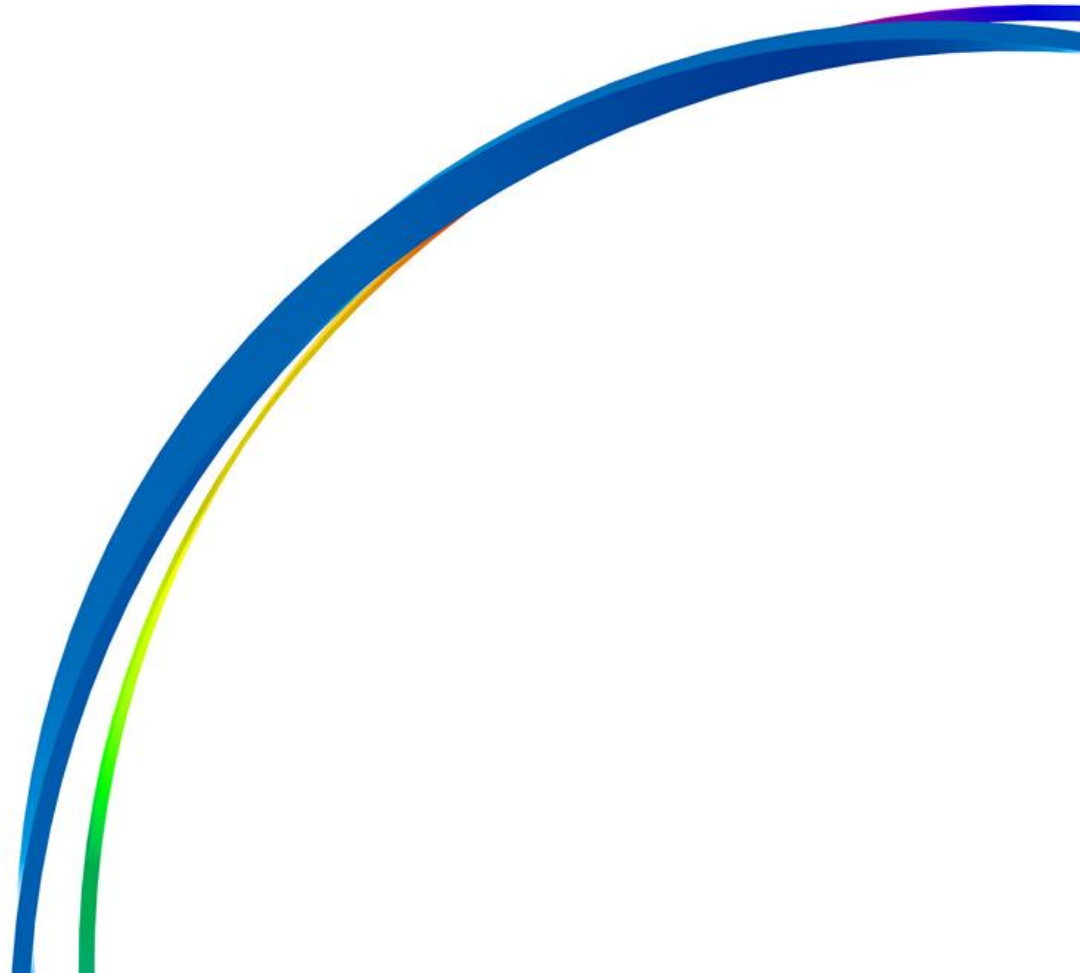


Universal BOX-PC



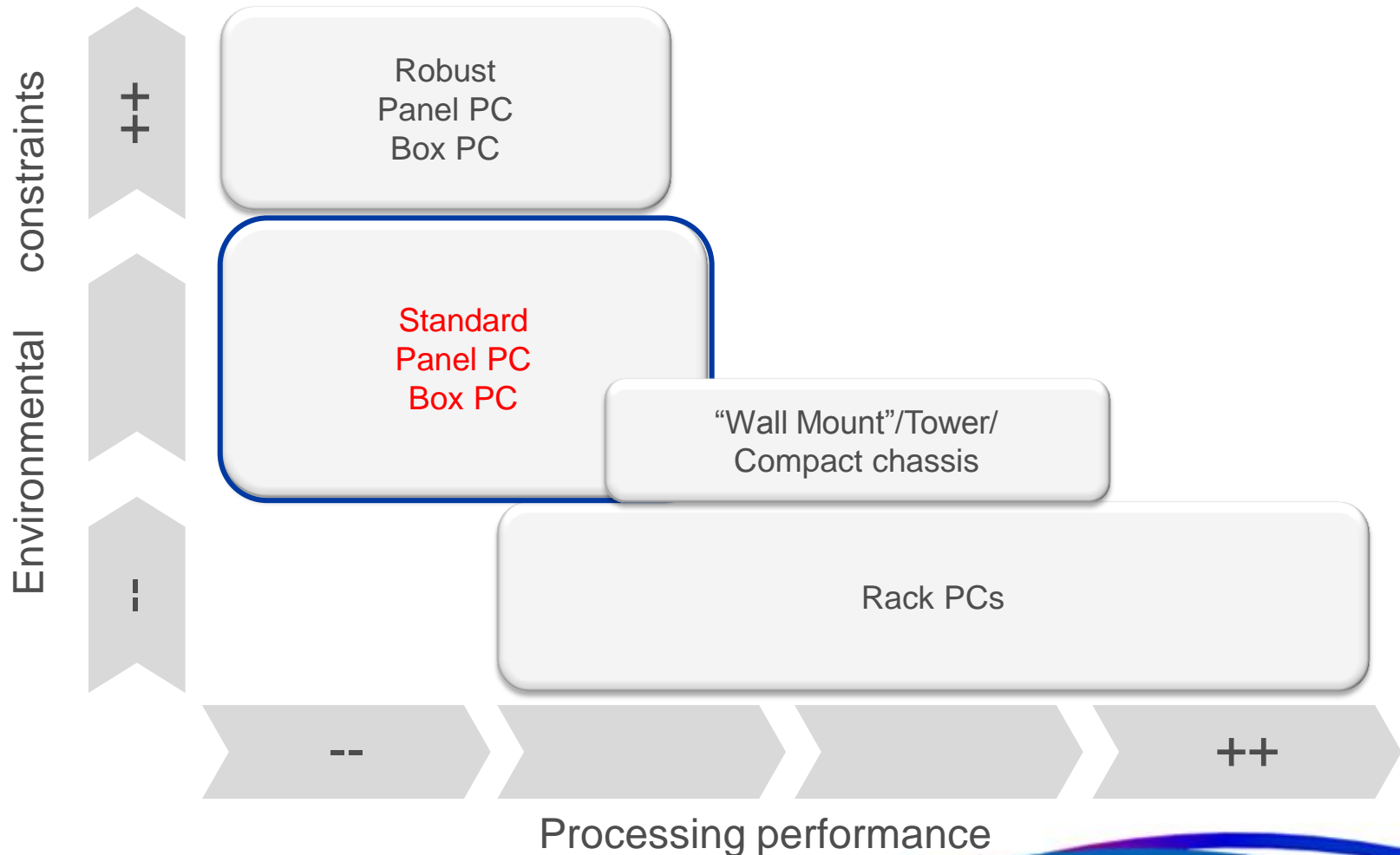
Optimized BOX-PC

Positioning

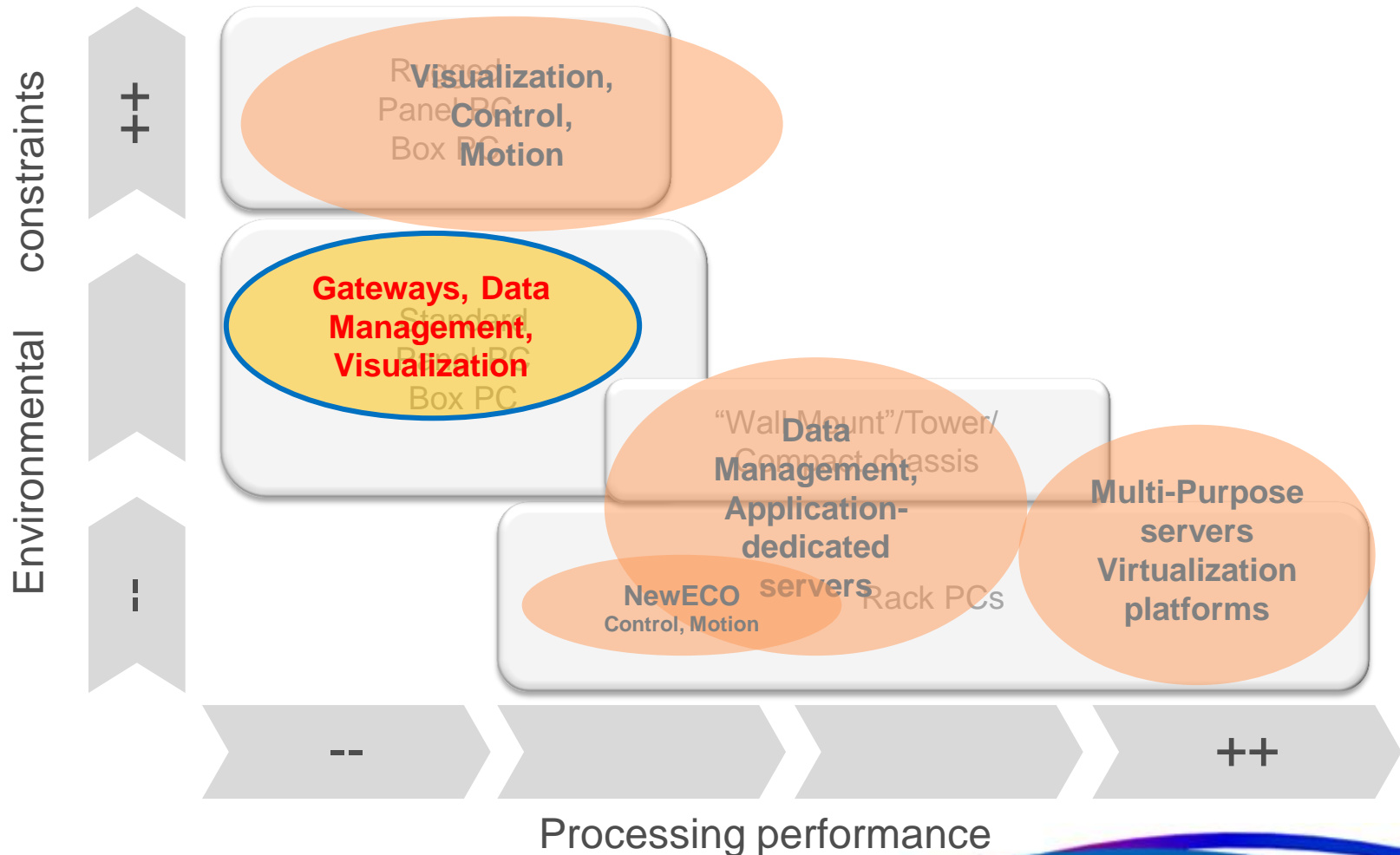


iPC market segmentation

Robust iPC to fulfill automation environment constraints

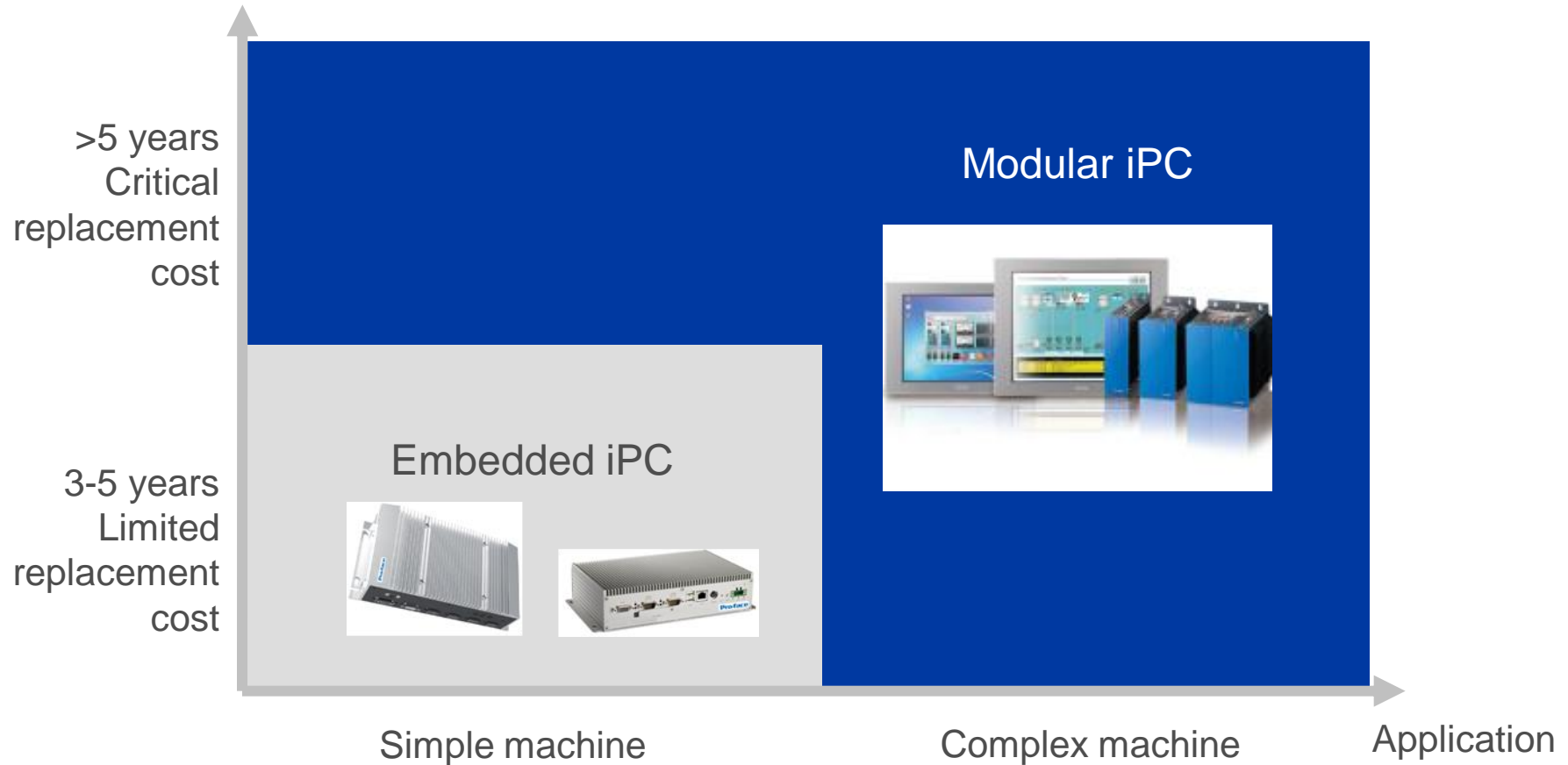


In Industry mainly use for Visualization, Control and motion

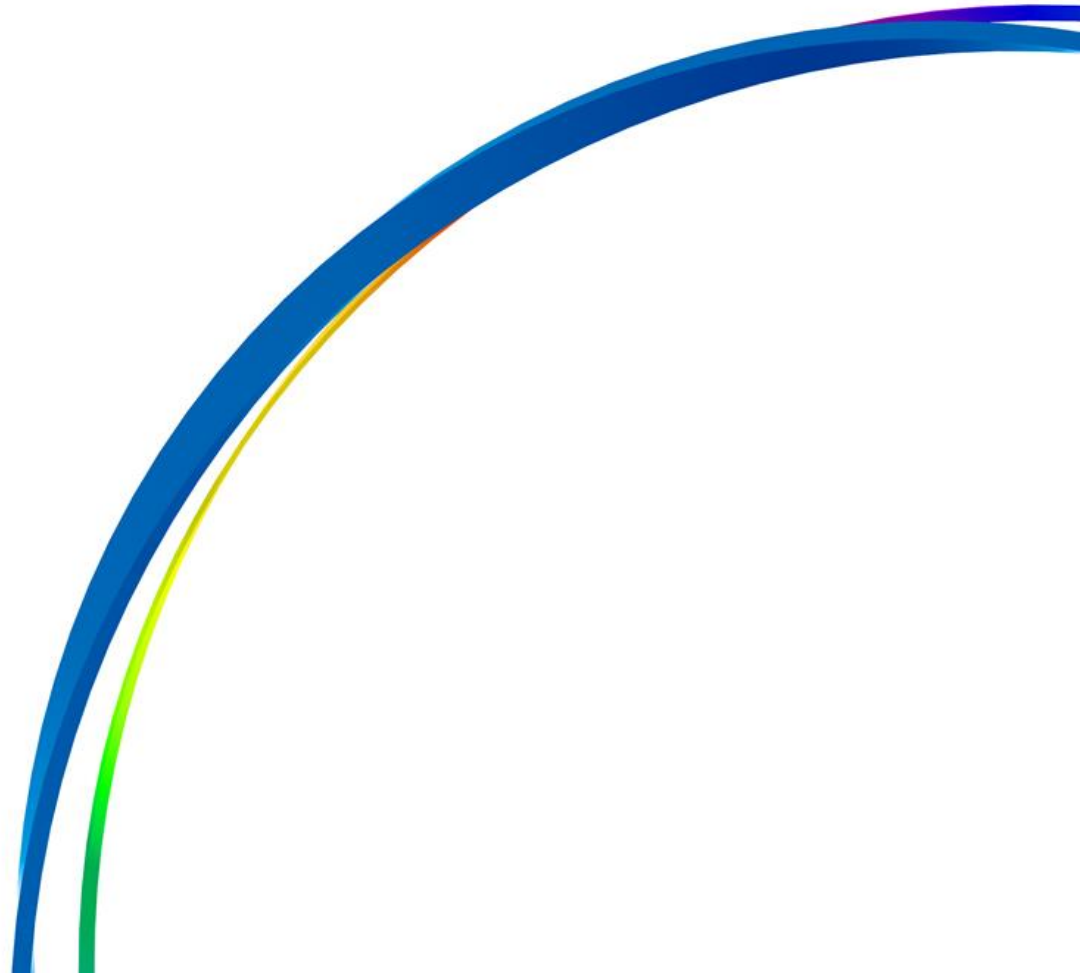


Replacement criticism

(incl. occurrence, labor, product, travel, data back-up costs and production loss)



Specifications



Specification

	Universal	Optimized
CPU	Atom N2600-1.6GHz	Atom N270-1.6GHz
DIMM	2GB or 4GB DDR3	2GB DDR3
FAN	FAN less	
Power supply	12-24VDC,	9-36VDC
OS	WES2009, WES7	WES2009
Ethernet	3x10/100/1000	1x10/100/1000
USB	5xUSB2.0	2xUSB2.0
COM	2xRS232C, 4xRS232C/422/485	2xRS232C
Graphic	1xAnalog RGB (up to 1920x1200) 1xHDMI (up to 1920x1200)	1xAnalog RGB (up to 1600x1200)
Others	Digital I/O: 8 bits Audio: Line out, Mic-in, Line in	1xPS2
Storage drive	1x SATA for 2.5" SSD	1x SATA for 2.5" SSD
CF card	1x CFast	1xCF
Expansion Slot	1xfull size mini PCIe	1xHalf size mini PCIe
Size	264.5(W)x68.4(H)x133(D)	255(W)x59(H)x152(D)
Operating TMP	-20-60°C (with airflow, speed=0.7m/sec) -20- 50°C (without airflow)	-20-70°C (with airflow, speed=0.7m/sec) -20-60°C (without airflow)
Certification	CE, UL60950, CCC, BSMI, KC	CE, UL60950, CCC, BSMI, KC

Parts number

PN	Description
PFXPEBAD21ANN1	BOX PC N270 CF DC 2GB WES2009
PFXPEBAD20NNN1	BOX PC N270 DC 2GB noOS
PFXPEBBD21BNN1	BOX PC N2600 CFast DC 2GB WES2009
PFXPEBBD42CNN1	BOX PC N2600 CFast DC 4GB WES7
PFXPEBBD42DNN1	BOX PC N2600 SSD DC 4GB WES7
PFXPEBBD40NNN1	BOX PC N2600 DC 4GB noOS

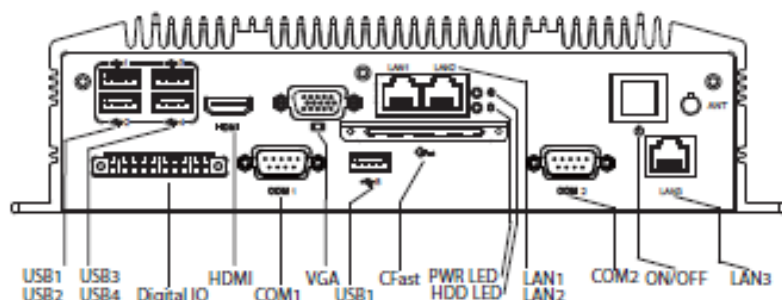
Accessories

PN	Description	PN	Description
PFXZPED321	DDR3 2GB	PFXZPEAFDR1	DIN-Rail Adaptor for N270
PFXZPED341	DDR3 4GB	PFXZPEAFDR2	DIN-Rail Adaptor for N2600
PFXZPESSD81	SSD 80GB	PFXZPEPBSBTLT1	Back up battery for N2600(Lithium)
PFXZPESSD161	SSD 160GB	PFXZPECNDC1	DC power connector for N270
PFXZPECF81	CF 8GB	PFXZPECNDC2	DC power connector for N2600
PFXZPECFA82	CFast 8GB	PFXZPECNDIO1	DIO Connector for N2600
PFXZPECFA162	CFast 16GB	PFXZPECNHDDV1	HDMI-DVI connector for N2600

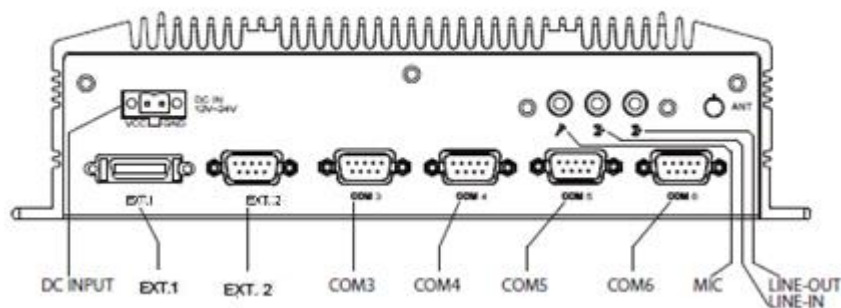
Design & layout drawing



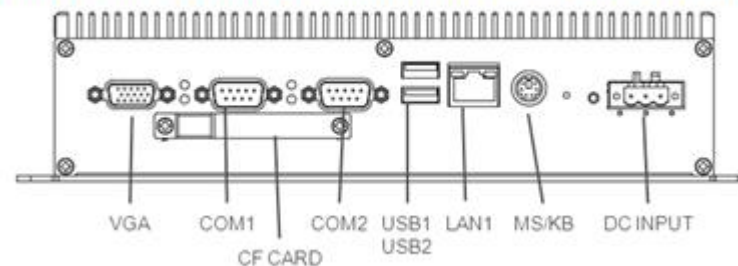
Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Front Panel External I/O Mechanical Layout/Drawing



Accessories



Din rail kit



SSD



CF/CFast

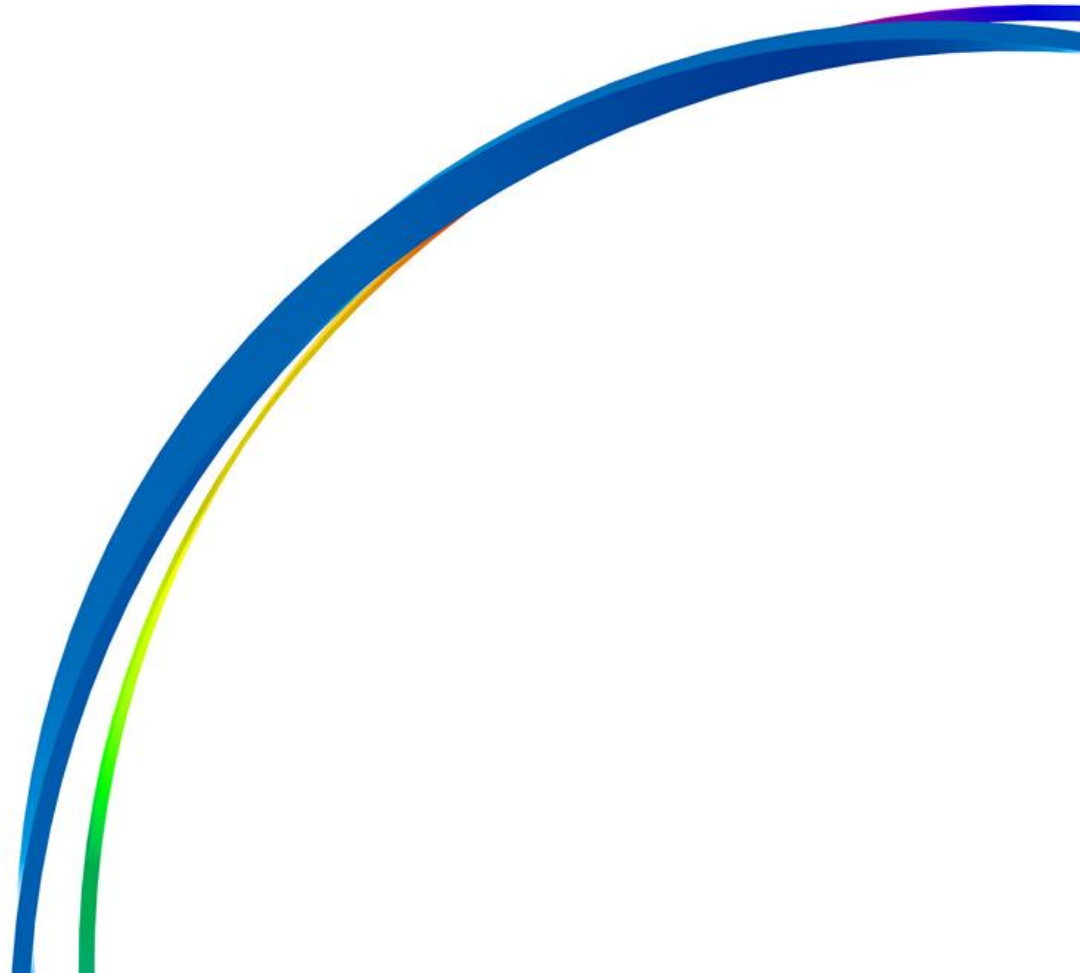


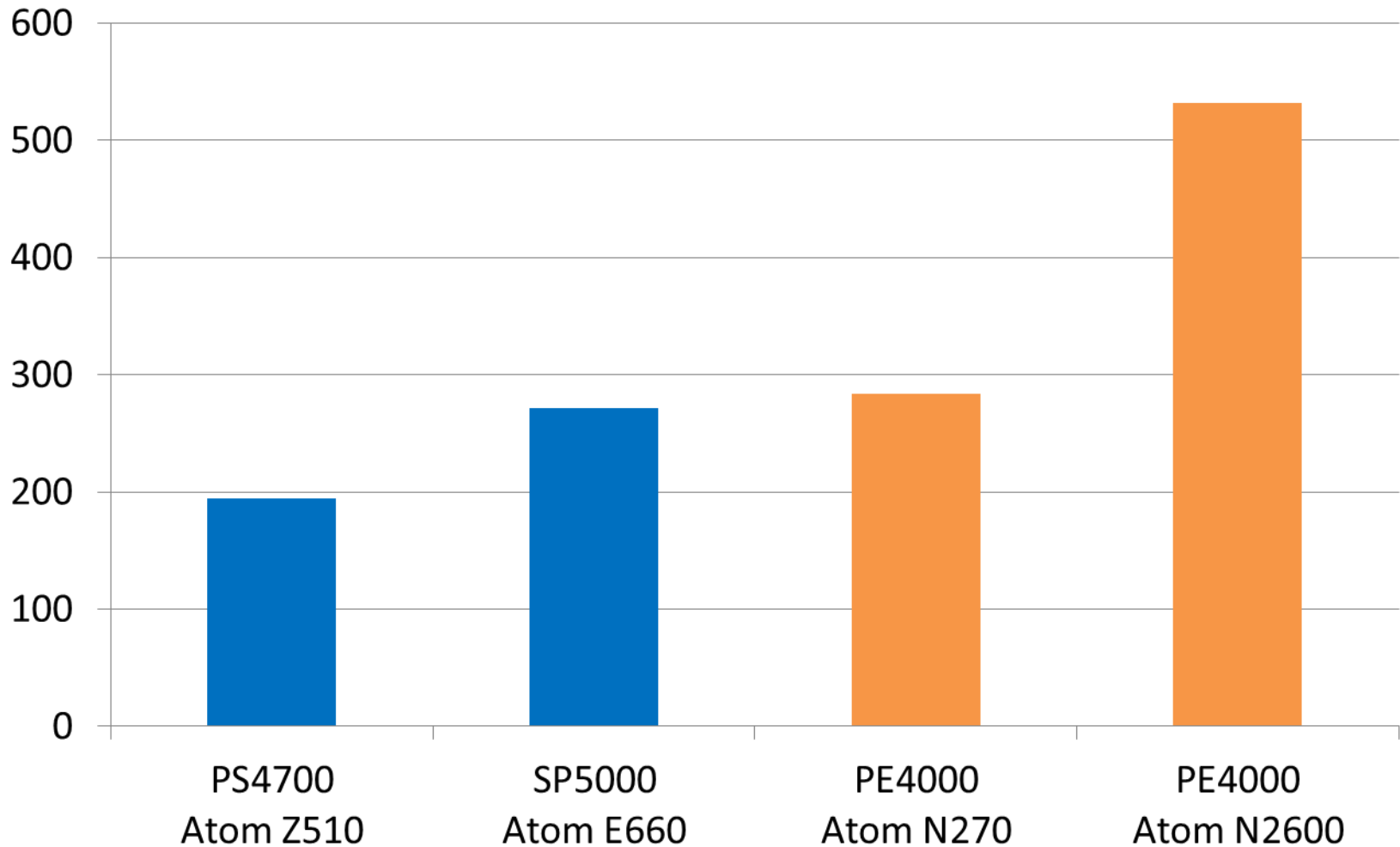
HDMI to DVI



DIMM

Annex

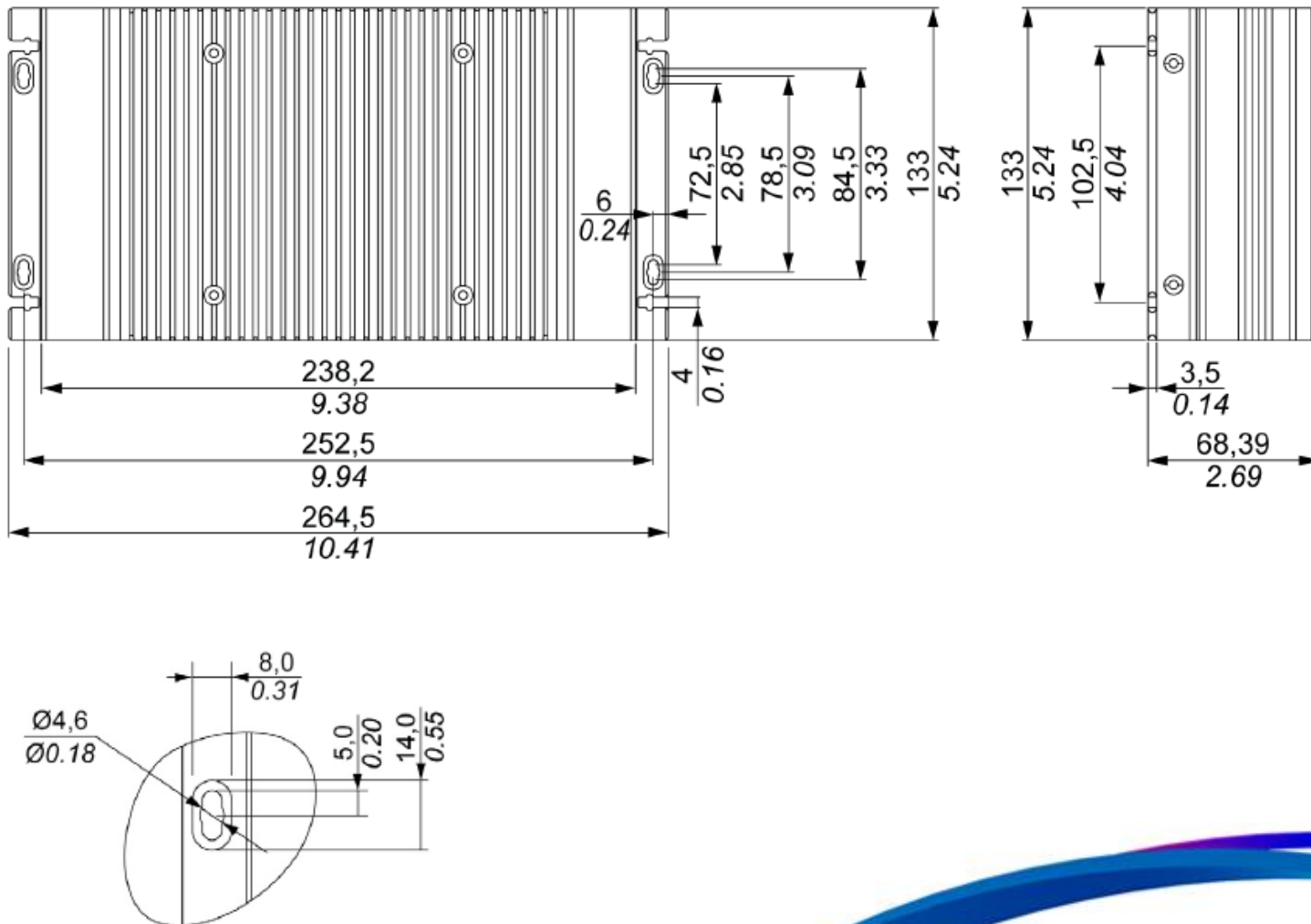




Dimensions

Universal

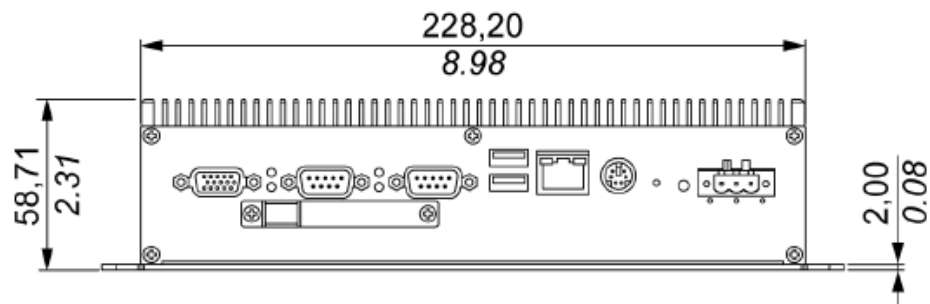
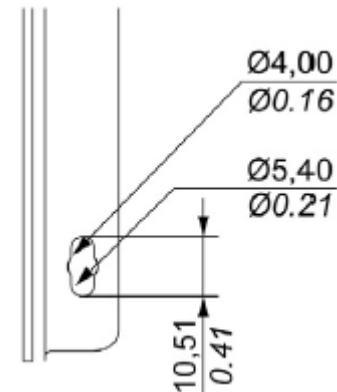
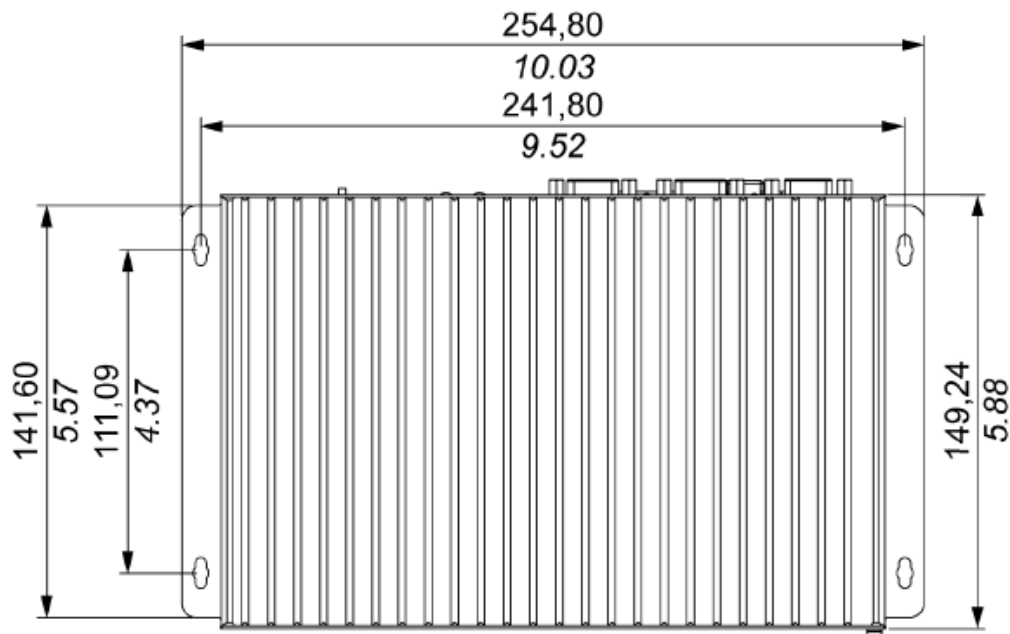
mm
In.



Dimensions

Optimized

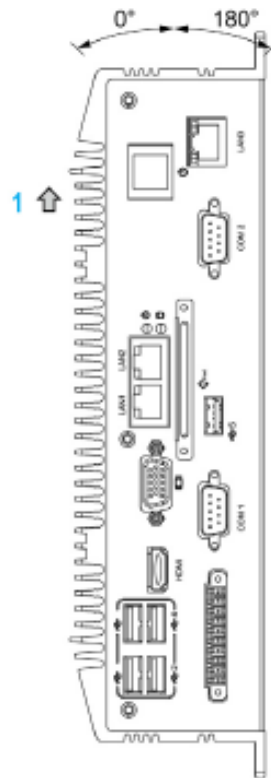
mm
In.



Mounting angle

<Optional mounting - flat>

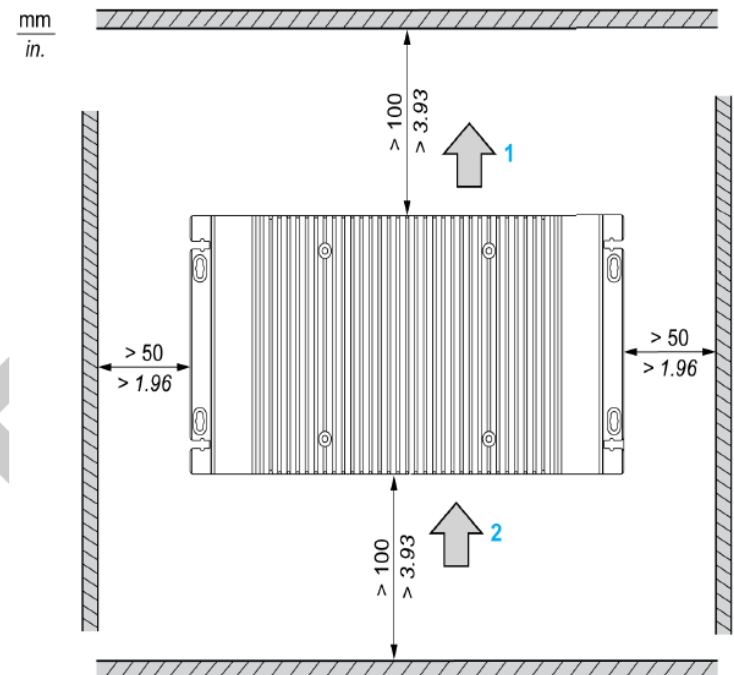
PE4000B must be mounted on DIN-rail or desk/wall mounting.



1 Heat sink

<Spacing for air circulation>

In order to provide sufficient air circulation, mount the system so that the spacing on the top, bottom, and sides are as follows:

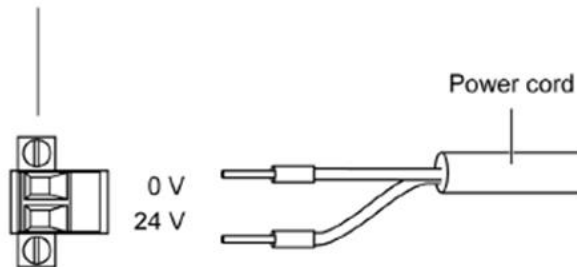


- 1 Air out
- 2 Air in

Remove the terminal block from the power connector and connect the power cord to the terminal block.

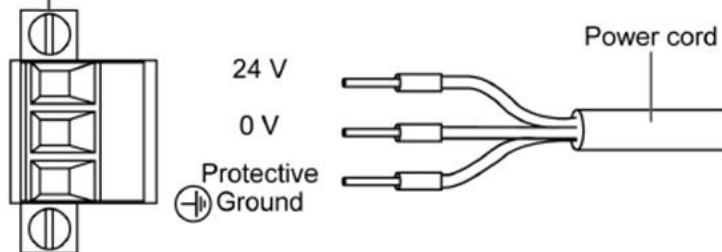
Terminal block of the Universal:

Terminal block



Terminal block of the Optimized:

Terminal block

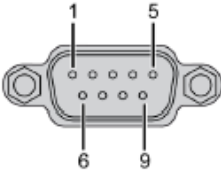


Use 75C copper wire.

Use wire with cross-section 0.75...2.5 mm² (AWG 18...AWG 12).

Universal

Serial Interface Connection

Pin	Assignment			
	RS-232	RS-422	RS-485	
1	DCD	TX-	DATA-	<div>SUB-D9 male connector:</div> 
2	RXD	TX+	DATA+	
3	TXD	Rx+	-	
4	DTR	RX-	-	
5	GND	GND	GND	
6	DSR	-	-	
7	RTS	-	-	
8	CTS	-	-	
9	RI	-	-	

DIO Connector



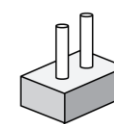
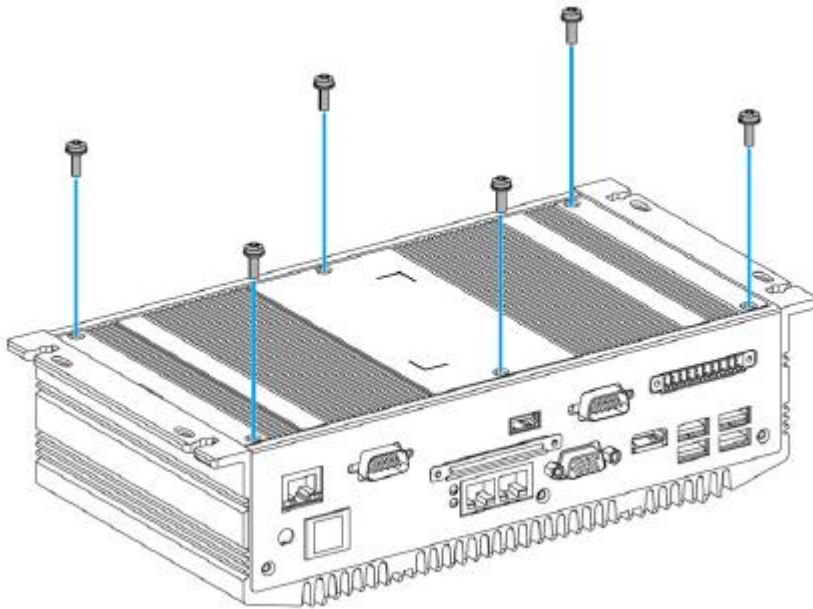
The table describes the DIO connector pins:

Pin	Signal	Pin	Signal
1	5 Vdc	6	DIO4
2	DIO0	7	DIO5
3	DIO1	8	DIO6
4	DIO2	9	DIO7
5	DIO3	10	GND

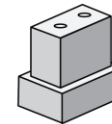
Jumpers setting for Serial line

Universal

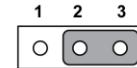
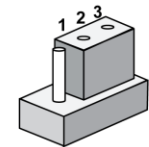
Remove the 6 screws marked on the bottom cover of PE4000B cover



Open



Closed



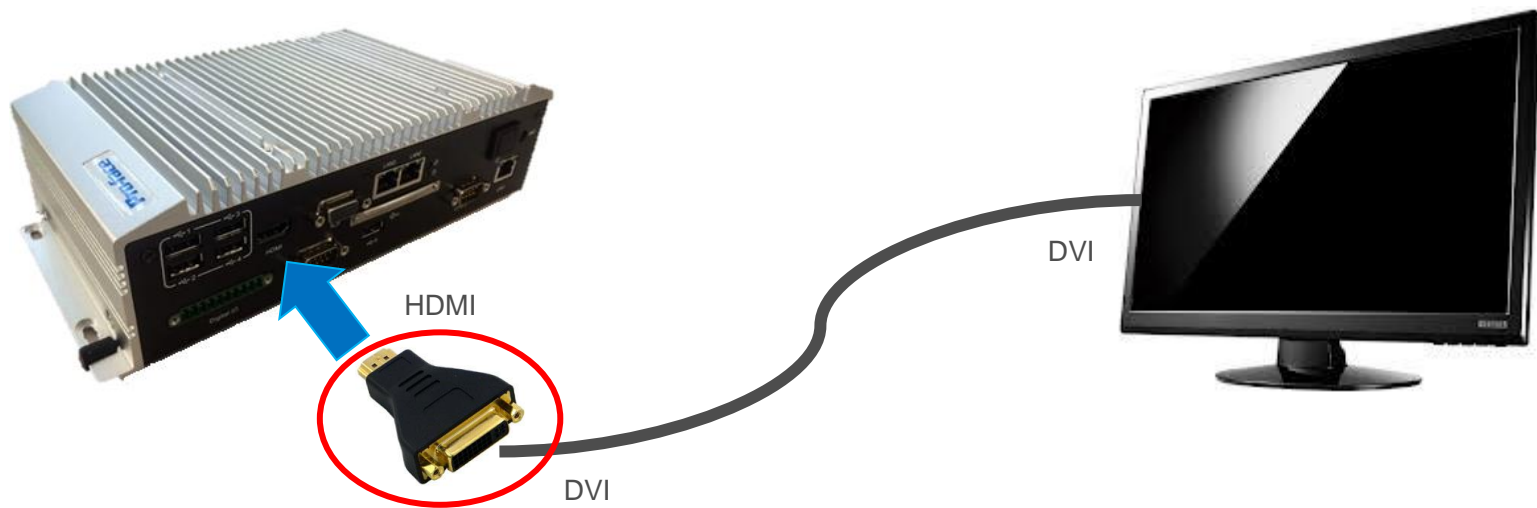
Closed 2-3

J4	COM2
Setting	Function
1-2	RS-232 (default)
3-4	RS-485
5-6	RS-422

HDMI to DVI exchange connector

PE4000B provides a HDMI (High-Definition Multimedia Interface). The HDMI is a compact audio/video interface for transferring video and digital audio data.

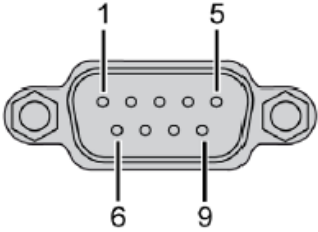
When you connect to DVI Display, please use following accessory.



*Supported mounting angle is only “flat”

Optimized

Serial Interface Connection

Pin	Assignment	
	RS-232	
1	DCD	<p>SUB-D9 male connector:</p> 
2	RXD	
3	TXD	
4	DTR	
5	GND	
6	DSR	
7	RTS	
8	CTS	
9	RI	



Pro-face

for the best interface