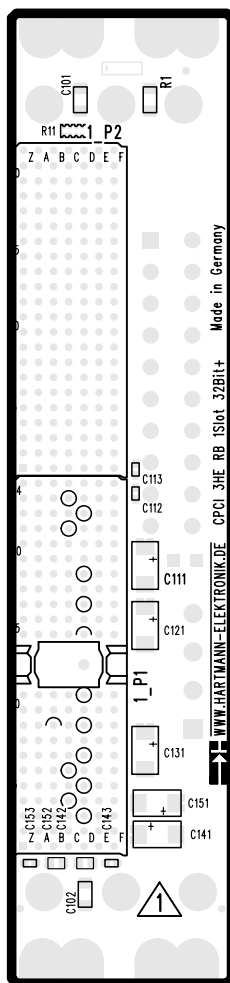


Coding Key	
V(I/O)	
+3.3V	+5V
	
Cadmium Yellow	Brilliant Blue

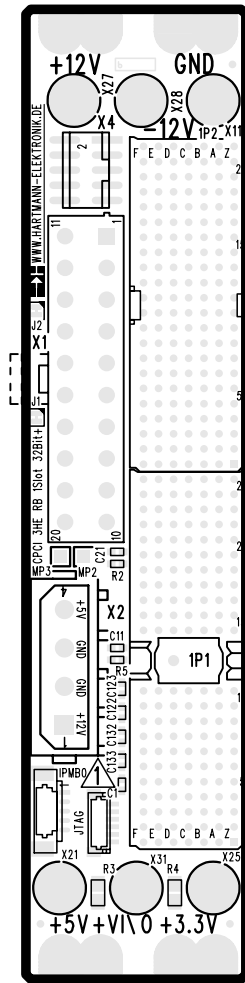


Hartmann Elektronik
CPCI 3HE RB 1Slot 32Bit+
BUS727 Rev.BA

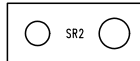
Silkscreen Top
Pads Top

				2001	Date	Name	Title Hartmann Elektronik CPCI 3HE RB 1Slot 32Bit+ BUS727 Rev.BA			
				Author	21.03.	Wiedmann				
				Check	21.03.	Ruthardt				
				DIN A4 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet	
									of	
							Device: HE-C33RB01--14			
Rev	Description	Date	Name							

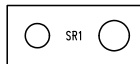
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Busbar V(I/O) = 5V



Busbar V(I/O) = 3.3V

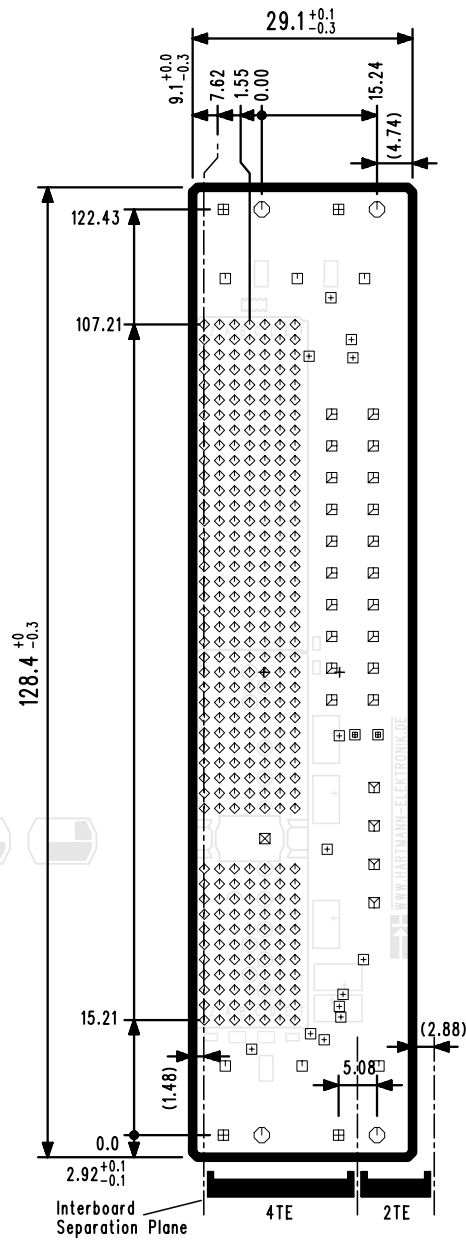


Silkscreen Bottom
Pads Bottom

Bus2727 Rev.BA
CPCI 3HE RB 1Slot 32Bit+
Hartmann Elektronik

				2001	Date	Name	Title Hartmann Elektronik CPCI 3HE RB 1Slot 32Bit+ BUS727 Rev.BA			
				Author	21.03.	Wiedmann				
				Check	21.03.	Ruthardt				
				DIN A4 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet	
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Rev	Description	Date	Name				Device:	HE-C33RB01--14	File:	BUS727BA

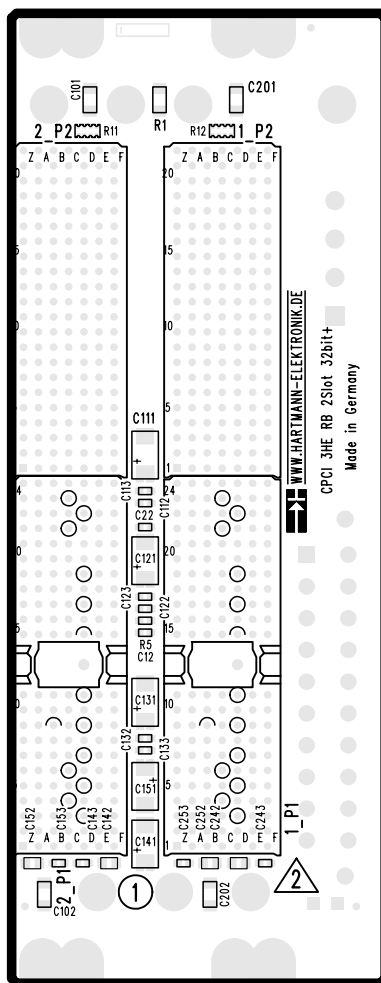
All rights reserved



Hartmann Elektronik
CPCI 3HE RB 1Slot 32Bit+
BUS727 Rev.BA

				2001	Date	Name	Title Hartmann Elektronik CPCI 3HE RB 1Slot 32Bit+ BUS727 Rev.BA			
				Author	21.03.	Wiedmann				
				Check	21.03.	Ruthardt				
				DIN A4 M 1:1						
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Rev	Description	Date	Name				Device:	HE-C33RB01--14	File: BUS727BA	

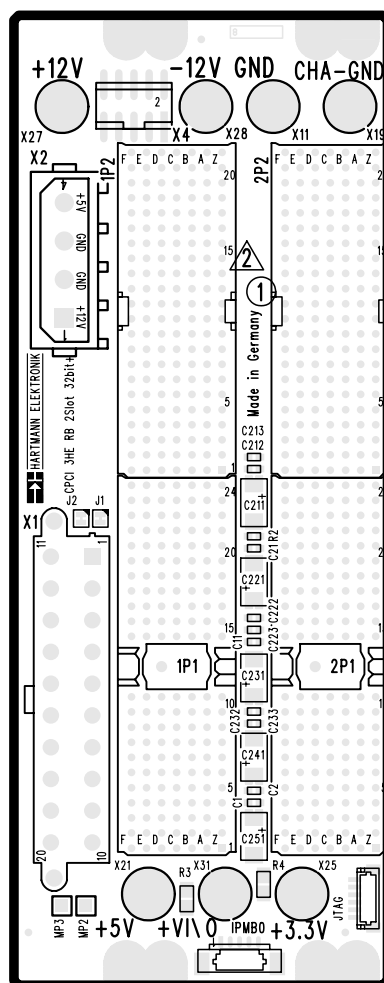
Coding Key	
V(I/O)	
+3.3V	+5V
	
Cadmium Yellow	Brilliant Blue



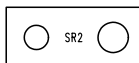
Hartmann Elektronik
CPCI 3HE RB 2Slot 32bit+
BUS726 Rev.BA

Silkscreen Top
Pads Top

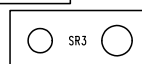
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				Author	28.02.	Wiedmann				
				Check	28.02.	Hamann				
				DIN A4 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet	
									of	
Rev	Description	Date	Name							Device:



Busbar V(I/O) = 5V



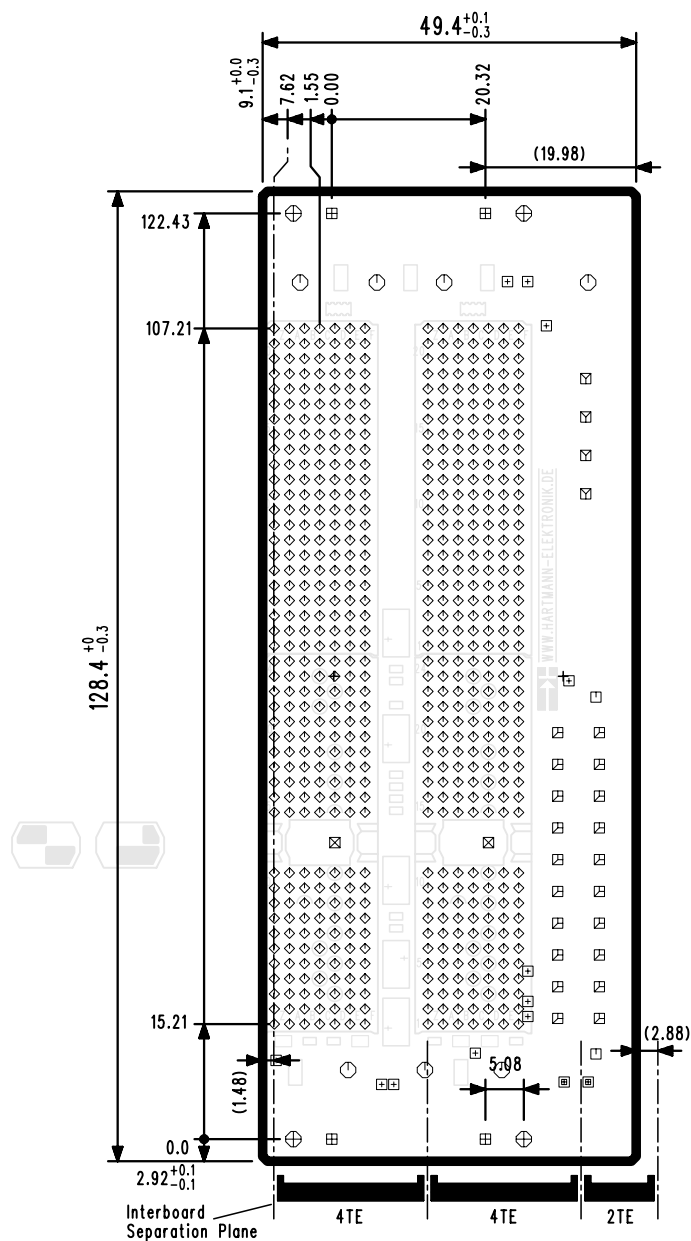
Busbar $V(I/O) = 3.3V$



Silkscreen Bottom
Pads Bottom

BU2726 Rev.BA
CPCI 3HE RB Slot 32bit+
Hartmann Elektronik

				2001	Date	Name	Title Hartmann Elektronik CPCI 3HE RB 2Slot 32bit+ BUS726 Rev.BA		
				Author	28.02.	Wiedmann			
				Check	28.02.	Hamann			
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				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART					
Rev	Description	Date	Name	Number			Sheet		
				of					
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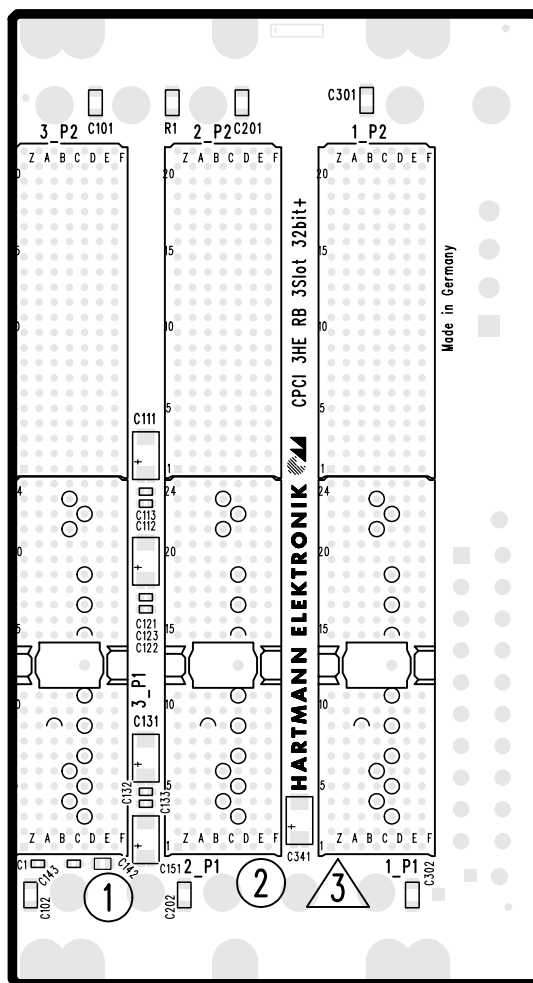


Hartmann Elektronik
CPCI 3HE RB 2Slot 32bit+
BUS726 Rev.BA

				2001	Date	Name	Title Hartmann Elektronik CPCI 3HE RB 2Slot 32bit+ BUS726 Rev.BA		
				Author	28.02.	Wiedmann			
				Check	28.02.	Hamann			
				DIN A4 M 1:1					
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									Device: HE-C33RB02---4
							File: BUS726BA		
Rev	Description	Date	Name						

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Coding Key	
V(I/O)	
+3.3V	+5V
	
Cadmium Yellow	Brilliant Blue



Hartmann Elektronik
CPCI 3HE RB 3Slot 32bit+
BUS725 Rev.BB

Silkscreen Top
Pads Top

				2006	Date	Name	Title	Hartmann Elektronik CPCI 3HE RB 3Slot 32bit+ BUS725		Rev.BB
				Author	29.06.	Wiedmann				
				Check	29.06.	Wiedmann				
				DIN A4						
				M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet	
							Device: HE-C33RB03---4		File: BUS725BB	of
Rev	Description	Date	Name							

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X4 Pin Assignment			
Pin	Signal	Pin	Signal
1	PRST-	2	FAL-
3	DEG-	4	+3.3V-Sense
5	+3.3V	6	GND-Sense (+3.3V)
7	+5V	8	+5V-Sense
9	GND	10	GND-Sense (+5V)

IPMB0 Pin Assignment	
Pin	Signal
1	IPMB_SCL
2	GND
3	IPMB_SDA
4	IPMB_PWR
5	SMB_RSV

JTAG Pin Assignment	
Pin	Signal
1	GND
2	TCK
3	TMS
4	TRST-
5	TDI
6	TDO

Busbar for +5V keying

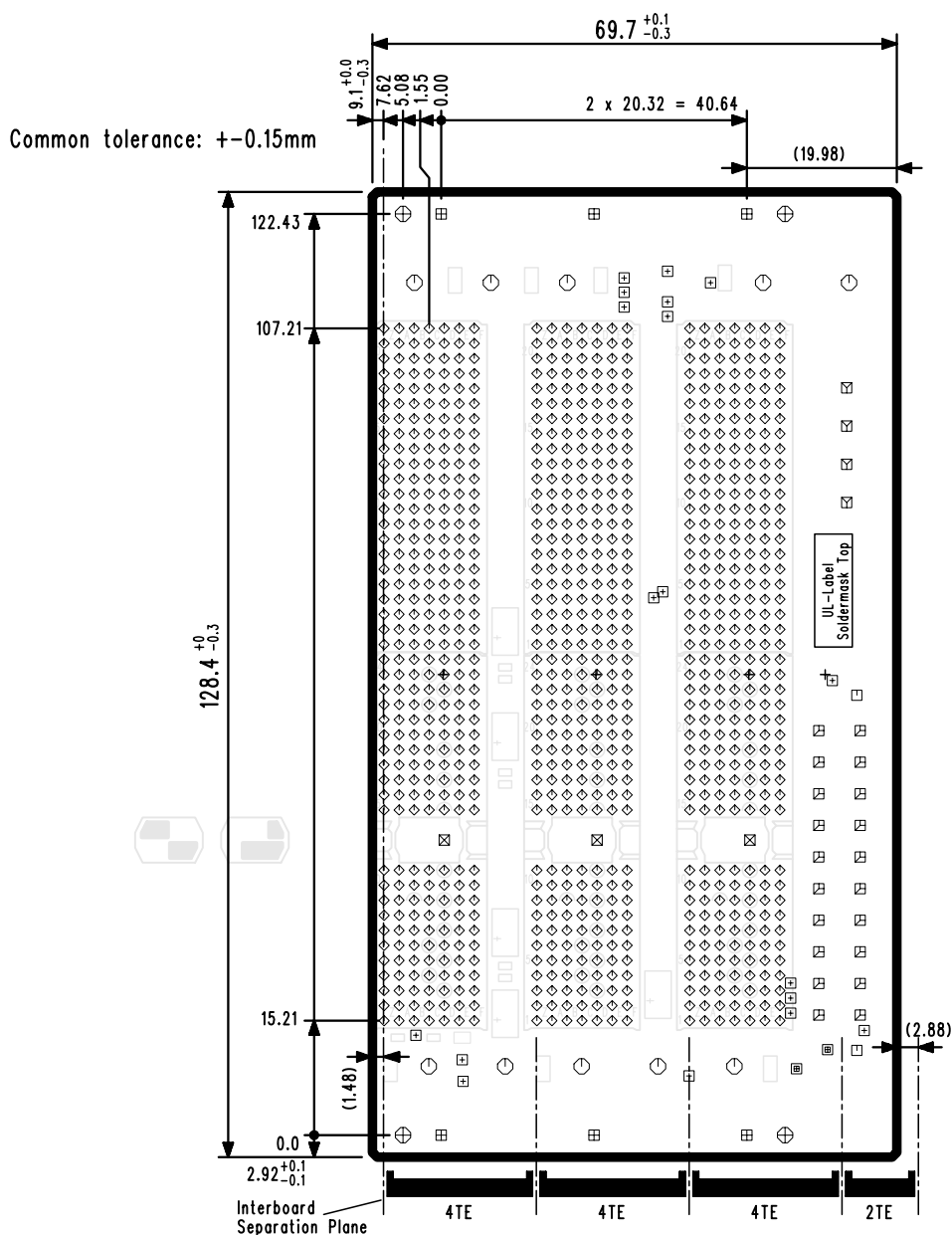
Busbar for +3.3V keying

Silkscreen Bottom
Pads Bottom

Rev.BB
BUS725
CPCI 3HE RB 3Slot 32bit+
Hartmann Elektronik

				2006	Date	Name	Title Hartmann Elektronik CPCI 3HE RB 3Slot 32bit+ BUS725 Rev.BB			
				Author	29.06.	Wiedmann				
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Rev	Description	Date	Name				Device:	HE-C33RB03---4	File:	BUS725BB

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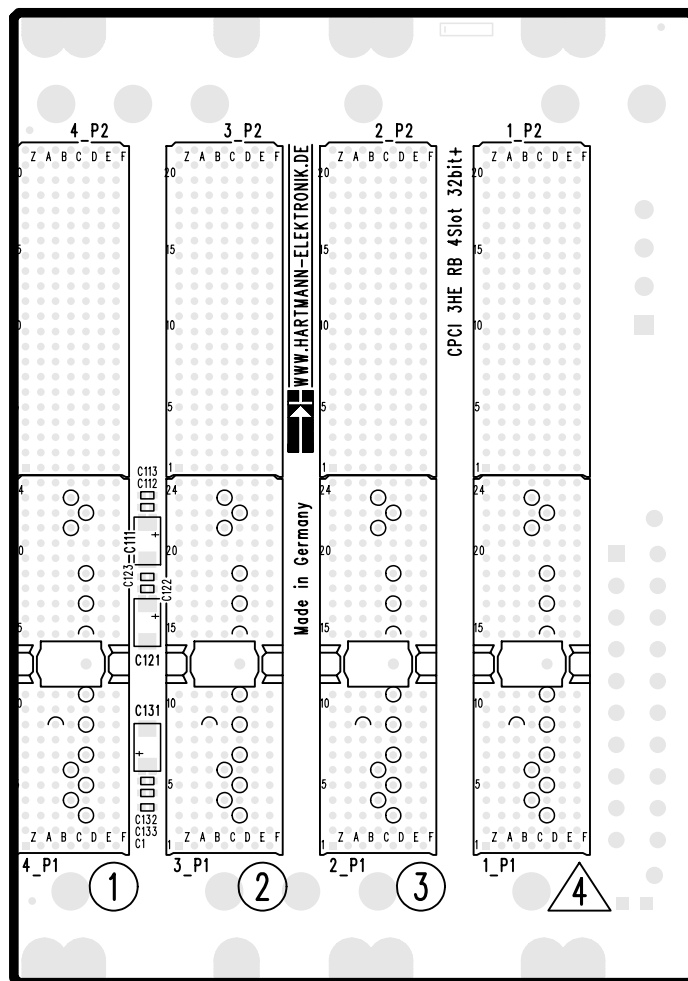


Hartmann Elektronik
CPCI 3HE RB 3Slot 32bit+
BUS725 Rev.BB

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Rev	Description	Date	Name				Device: HE-C33RB03---4 File: BUS725BB					

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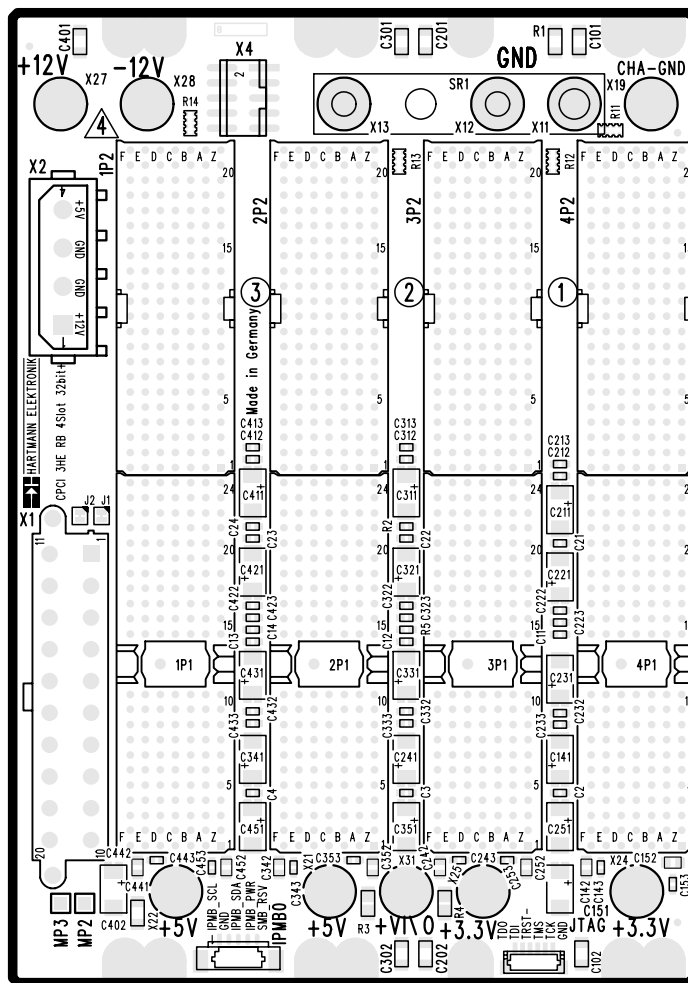
Coding Key	
V(I/O)	
+3.3V	+5V
	
Cadmium Yellow	Brilliant Blue



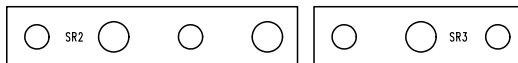
Hartmann Elektronik
CPCI 3HE RB 4Slot 32bit+
BUS724 Rev.BA

Silkscreen Top
Pads Top

				2001	Date	Name	Title Hartmann Elektronik CPCI 3HE RB 4Slot 32bit+ BUS724 Rev.BA				
				Author	08.03.	Wiedmann					
				Check	08.03.	Hamann					
				DIN A4 M 1:1							
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet		
									of		
Rev	Description	Date	Name				Device: HE-C33RA04---4			File: BUS724BA	



Busbar for +5V keying

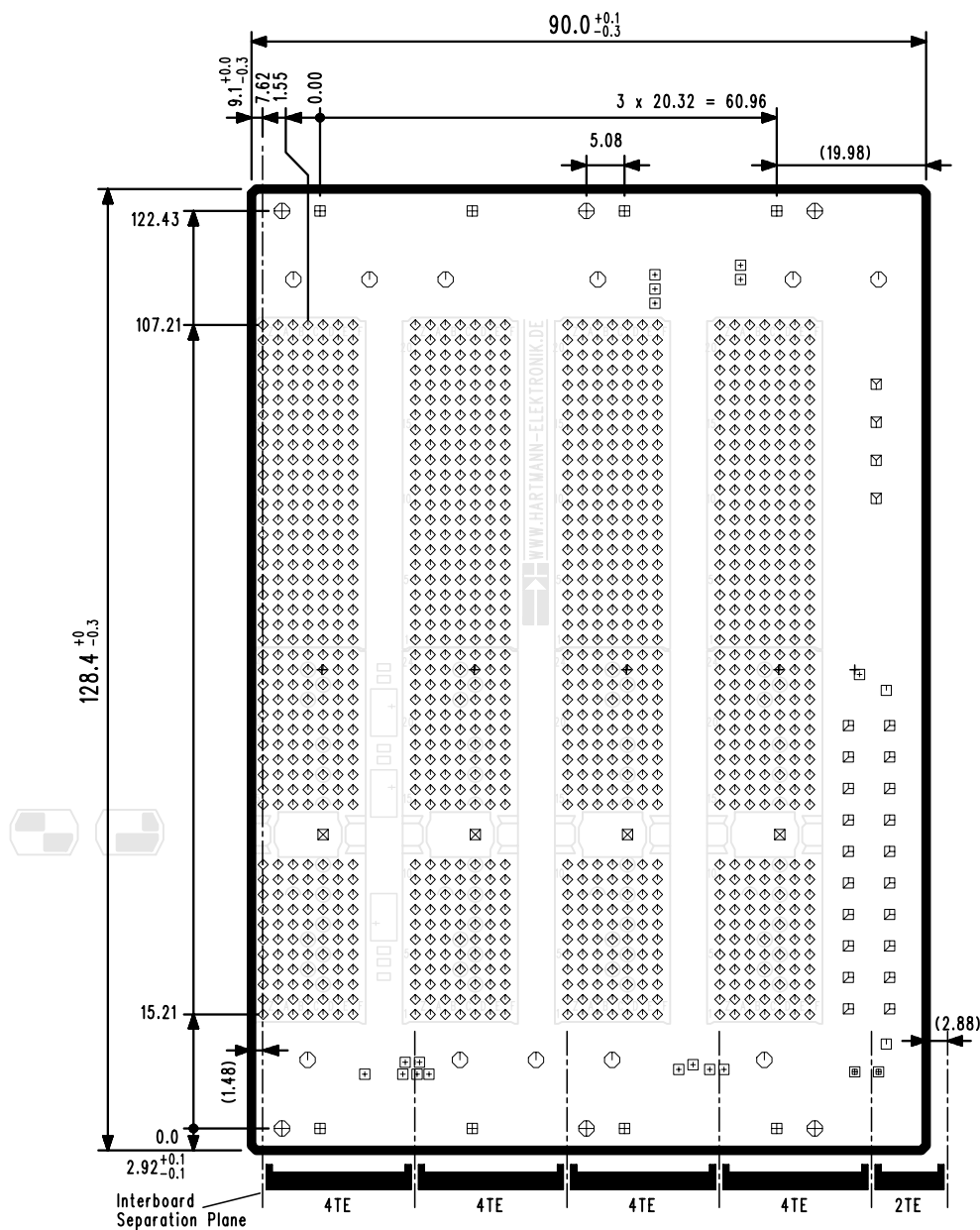


Busbar for +3.3V keying

Silkscreen Bottom
Pads BottomHartmann Elektronik
CPCI 3HE RB 4Slot 32bit+
Rev.BA
BUS724

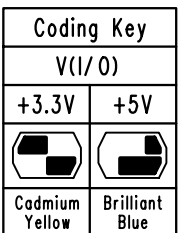
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				DIN A4 M 1:1							
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet		
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Rev	Description	Date	Name				Device:		HE-C33RA04---4	File:	BUS724BA

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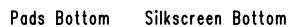
Hartmann Elektronik
CPCI 3HE RB 4Slot 32bit+
BUS724 Rev.BA

				2001	Date	Name	Title Hartmann Elektronik CPCI 3HE RB 4Slot 32bit+ BUS724 Rev.BA			
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				Check	08.03.	Hamann				
				DIN A4 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number			Sheet
										of
Rev	Description	Date	Name							Device:



Silkscreen Top
Pads Top

[illegible]



BU2725 Rev.BA
CPCL 3HE RB 0201 32bit+
Hartmann Elektronik

Sheet	of
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[illegible][illegible][illegible]

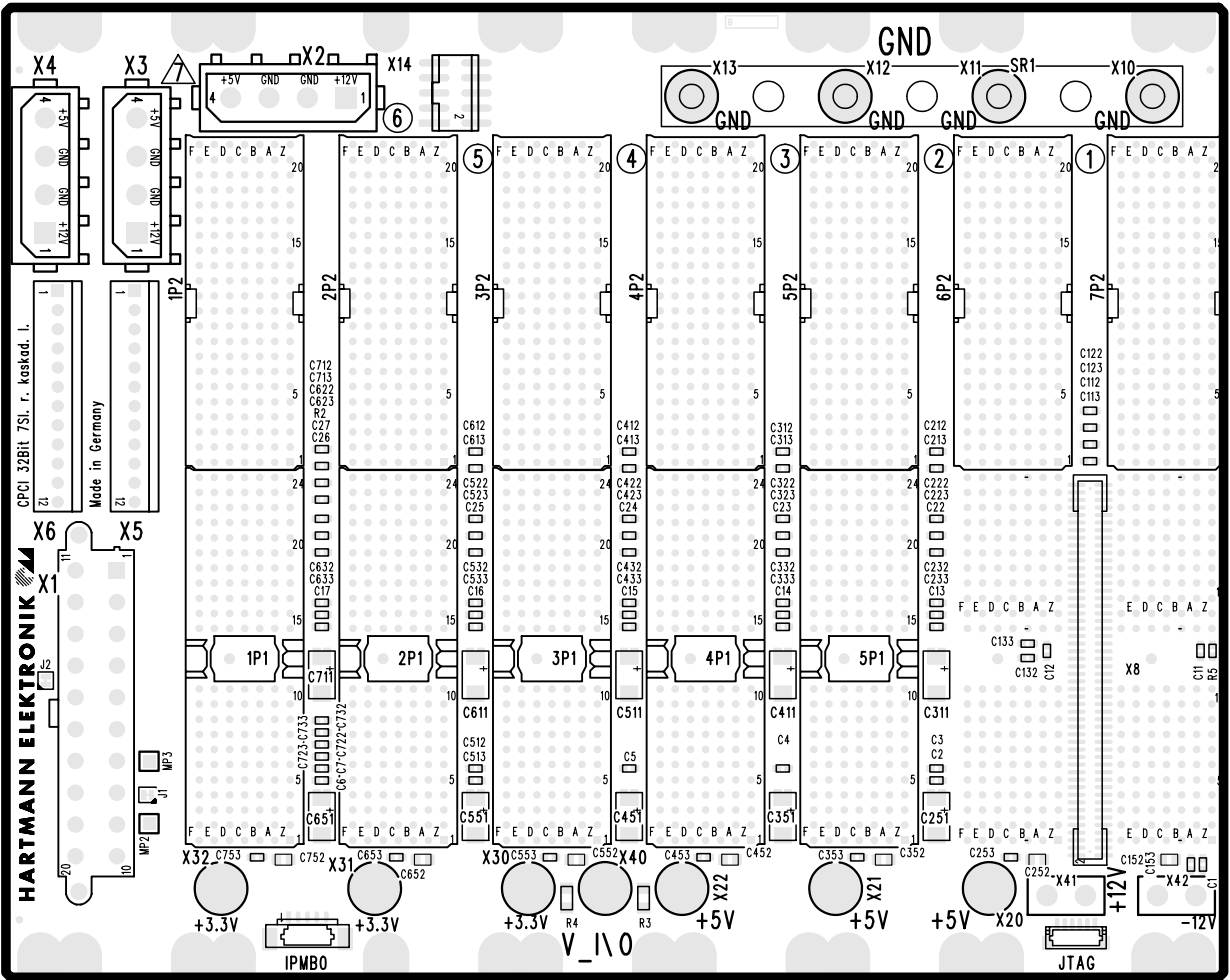
Without geographic addressing on request

X14 Pin Assignment

Pin	Signal	Pin	Signal
1	PRST-	2	FAL-
3	DEG-	4	+3.3V-Sense
5	+3.3V	6	GND-Sense (+3.3V)
7	+5V	8	+5V-Sense
9	GND	10	GND-Sense (+5V)

BOTTOM VIEW

Floppy-Connector (X2) on request



Shrouds
1P1 - 3P1
on request

JTAG
Pin Assignment

Pin	Signal
1	GND
2	TCK
3	TMS
4	TRST-
5	TDI
6	TDO

IPMB0
Pin Assignment

Pin	Signal
1	IPMB_SCL
2	GND
3	IPMB_SDA
4	IPMB_PWR
5	SMB_RSV

Busbar V(I/O) = 3,3V

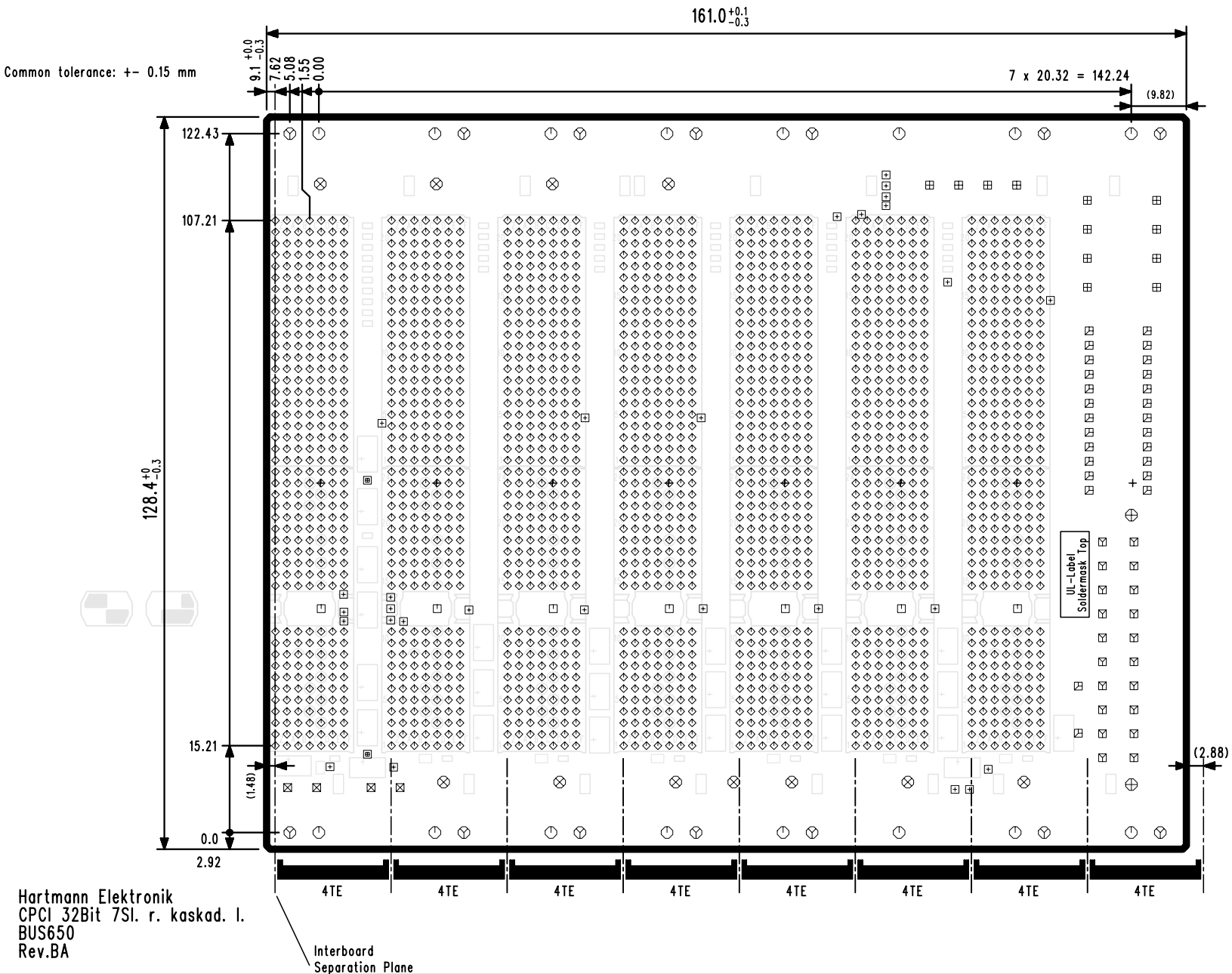
Busbar V(I/O) = 5V

Pods L-Seite
Beschriftungsdruck L-Seite

Rev.BA
BU2650
CPCI 32Bit 75l. r. kaskad. I.
Hartmann Elektronik

Rev	Description	Date	Name	2007	Date	Name	Title	Number	File:	Sheet	of
1							Hartmann Elektronik		BUS650BA		
							CPCI 32Bit 75l. r. kaskad. I.				
							Rev.BA				
							DIN A4				
							M 1:1				
							Wiedmann				
							Check 30.01.				
							Author 30.01.				
							2007				

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Title		2007		Date		Name	
Hartmann Elektronik CPCI 32Bit 7Sl. r. kaskad. I. BUS650 Rev.BA		Author		30.01.		Wiedmann	
		Check		30.01.		Wiedmann	
						DIN A4 M 1:1	
Number							
Sheet							
of							
Rev Description		Date		Name			
1							
2							
3							

HARTMANN
ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

File: BUS650BA

BU2720 Rev.BB
CPCI 3HE RB 82lot 32bit+
Hartmann Elektronik

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1 2 3

A B C D

Rev Description Date Name

2006 Date Name

Author 05.12. Wiedmann

Check 05.12. Wiedmann

DIN A4 M 1:1

Hartmann Elektronik
MOTORSTRASSE 43
D-70499 STUTTGART

Device: HE-C33RB08--14 File: BUS720BB

Sheet of

Common Tolerance: ± 0.15 mm

Hartmann Elektronik
CPCI 3HE RB 8Slot 32bit+
BUS720 Rev.BB

Interboard Separation Plane

185.4 $^{+0.1}_{-0.3}$

7 x 20.32 = 142.24

(19.98)

5.08

23.2 $^{+0.0}_{-0.3}$

7.62

1.55

0.00

122.43

107.21

128.4 $^{+0.0}_{-0.1}$

15.21

0.0

2.92 $^{+0.1}_{-0.1}$

4TE

4TE

4TE

4TE

4TE

4TE

4TE

4TE

4TE

2TE

(2.88)

Top Label - III - Soldermask

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1 2 3

A B C D

Rev Description Date Name

2006 Date Name

Author 05.12. Wiedmann

Check 05.12. Wiedmann

DIN A4 M 1:1

Hartmann Elektronik
MOTORSTRASSE 43
D-70499 STUTTGART

Device: HE-C33RB08--14 File: BUS720BB

Sheet of

Common Tolerance: ± 0.15 mm

Hartmann Elektronik
CPCI 3HE RB 8Slot 32bit+
BUS720 Rev.BB

Interboard Separation Plane

185.4 $^{+0.1}_{-0.3}$

7 x 20.32 = 142.24

(19.98)

5.08

23.2 $^{+0.0}_{-0.3}$

7.62

1.55

0.00

122.43

107.21

128.4 $^{+0.0}_{-0.1}$

15.21

0.0

2.92 $^{+0.1}_{-0.1}$

4TE

4TE

4TE

4TE

4TE

4TE

4TE

4TE

4TE

2TE

(2.88)

Top Label - III - Soldermask

Technical drawing of a PCB layout, showing dimensions, components, and manufacturing notes.

Dimensions:

- Overall width: 185.4^{+0.1}_{-0.3} mm
- Overall height: 128.4^{+0.4}_{-0.1} mm
- Top section width: 7 x 20.32 = 142.24 mm
- Top section height: 19.98 mm
- Bottom section width: 2.88 mm
- Bottom section height: 15.21 mm
- Left section width: 107.21 mm
- Left section height: 122.43 mm
- Right section width: 2.92^{+0.1}_{-0.1} mm
- Right section height: 0.0 mm
- Bottom section width: 4.76 mm
- Bottom section height: 0.0 mm

Components:

- Top section: 7 x 20.32 mm array of components.
- Bottom section: 7 x 20.32 mm array of components.
- Left section: 107.21 mm array of components.
- Right section: 2.92 mm array of components.

Notes:

- Common Tolerance: ±0.15 mm
- Interboard Separation Plane
- Soldermask
- Top
- Left - III

Legend:

- Top
- Left - III
- Right - III
- Bottom - III

Manufacturer Information:

Hartmann Elektronik
CPCI 3HE RB 8Slot 32bit+
BUS720 Rev.BB

Revision History:

Rev	Description	Date	Name
1			
2			
3			

Device: HE-C33RB08--14
File: BUS720BB

Sheet: 1 of 1

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Common Tolerance: ± 0.15 mm

Dimensions:

- Width: $185.4^{+0.1}_{-0.3}$ mm
- Height: $128.4^{+0.1}_{-0.1}$ mm
- Slot width: 20.32 mm
- Slot spacing: $7 \times 20.32 = 142.24$ mm
- Slot offset: 5.08 mm
- Slot offset: 19.98 mm
- Slot offset: 2.88 mm
- Slot offset: $2.92^{+0.1}_{-0.1}$ mm
- Slot offset: 0.0 mm
- Slot offset: 15.21 mm
- Slot offset: 107.21 mm
- Slot offset: 122.43 mm
- Slot offset: $23.2^{+0.0}_{-0.3}$ mm
- Slot offset: 7.62 mm
- Slot offset: 1.55 mm
- Slot offset: 0.00 mm

Components:

- CPC1 3HE RB 8Slot 32bit+ BUS720
- Interboard Separation Plane
- Soldermask
- Label - III

Revision Table:

Rev	Description	Date	Name
1			

Sheet 1 of 3

Hartmann Elektronik
CPC1 3HE RB 8Slot 32bit+
BUS720 Rev.BB

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Common Tolerance: ± 0.15 mm

Dimensions:

- Width: $185.4^{+0.1}_{-0.3}$ mm
- Height: $128.4^{+0.1}_{-0.1}$ mm
- Slot width: 20.32 mm
- Slot spacing: $7 \times 20.32 = 142.24$ mm
- Slot offset: 5.08 mm
- Slot offset: 19.98 mm
- Slot offset: 2.88 mm
- Slot offset: $2.92^{+0.1}_{-0.1}$ mm
- Slot offset: 0.0 mm
- Slot offset: 15.21 mm
- Slot offset: 107.21 mm
- Slot offset: 122.43 mm
- Slot offset: $23.2^{+0.0}_{-0.3}$ mm
- Slot offset: 7.62 mm
- Slot offset: 1.55 mm
- Slot offset: 0.00 mm

Components:

- CPC1 3HE RB 8Slot 32bit+ BUS720
- Interboard Separation Plane
- Soldermask
- Label - III

Revision Table:

Rev	Description	Date	Name
1			

Sheet 1 of 3

Hartmann Elektronik
CPC1 3HE RB 8Slot 32bit+
BUS720 Rev.BB

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Common Tolerance: ± 0.15 mm

Dimensions:

- Width: $185.4^{+0.1}_{-0.3}$ mm
- Height: $128.4^{+0.1}_{-0.1}$ mm
- Slot width: 20.32 mm
- Slot spacing: $7 \times 20.32 = 142.24$ mm
- Slot offset: 5.08 mm
- Slot offset: 19.98 mm
- Slot offset: 2.88 mm
- Slot offset: $2.92^{+0.1}_{-0.1}$ mm
- Slot offset: 0.0 mm
- Slot offset: 15.21 mm
- Slot offset: 107.21 mm
- Slot offset: 122.43 mm
- Slot offset: $23.2^{+0.0}_{-0.3}$ mm
- Slot offset: 7.62 mm
- Slot offset: 1.55 mm
- Slot offset: 0.00 mm

Components:

- CPC1 3HE RB 8Slot 32bit+ BUS720
- Interboard Separation Plane
- Soldermask
- Label - III

Revision Table:

Rev	Description	Date	Name
1			

Device: HE-C33RB08--14 File: BUS720BB

Sheet 1 of 3

Hartmann Elektronik
CPC1 3HE RB 8Slot 32bit+
BUS720 Rev.BB

[illegible]

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Common Tolerance: ± 0.15 mm

Hartmann Elektronik
CPC1 3HE RB 8Slot 32bit+
BUS720 Rev.BB

Interboard Separation Plane

Top Label - III - Label - III

Dimensions:

- Overall Width: $185.4^{+0.1}_{-0.3}$ mm
- Overall Height: $128.4^{+0.1}_{-0.1}$ mm
- Slot Width: $4TE$ (8 slots)
- Slot Width: $2TE$ (1 slot)
- Slot Spacing: $7 \times 20.32 = 142.24$ mm
- Slot Width: 5.08 mm
- Slot Width: 19.98 mm
- Slot Width: 2.88 mm
- Slot Width: 15.21 mm
- Slot Width: 0.0 mm
- Slot Width: $2.92^{+0.1}_{-0.1}$ mm
- Slot Width: 107.21 mm
- Slot Width: 122.43 mm
- Slot Width: $23.2^{+0.0}_{-0.3}$ mm
- Slot Width: 7.62 mm
- Slot Width: 1.55 mm
- Slot Width: 0.00 mm

Rev Description Date Name

2006 Date Name

Author 05.12. Wiedmann

Check 05.12. Wiedmann

DIN A4

M 1:1

Number

Hartmann Elektronik

CPC1 3HE RB 8Slot 32bit+ BUS720

Rev.BB

Device: HE-C33RB08--14 File: BUS720BB

Sheet of

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