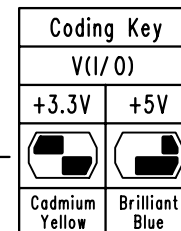


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Silkscreen Top
Pads Top

				2007	Date	Name	Title Hartmann Elektronik CPCI 3HE RA 2Slot 32bit+ BUS676 Rev.BB		
				Author	01.03.	Wiedmann			
				Check	01.03.	Wiedmann			
				DIN A4 M 1:1					
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet
									of
Rev	Description	Date	Name				Device: HE-C33RA025--4		File: BUS676BB

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Shrouds
1P1 - 2P1
on request

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)

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

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

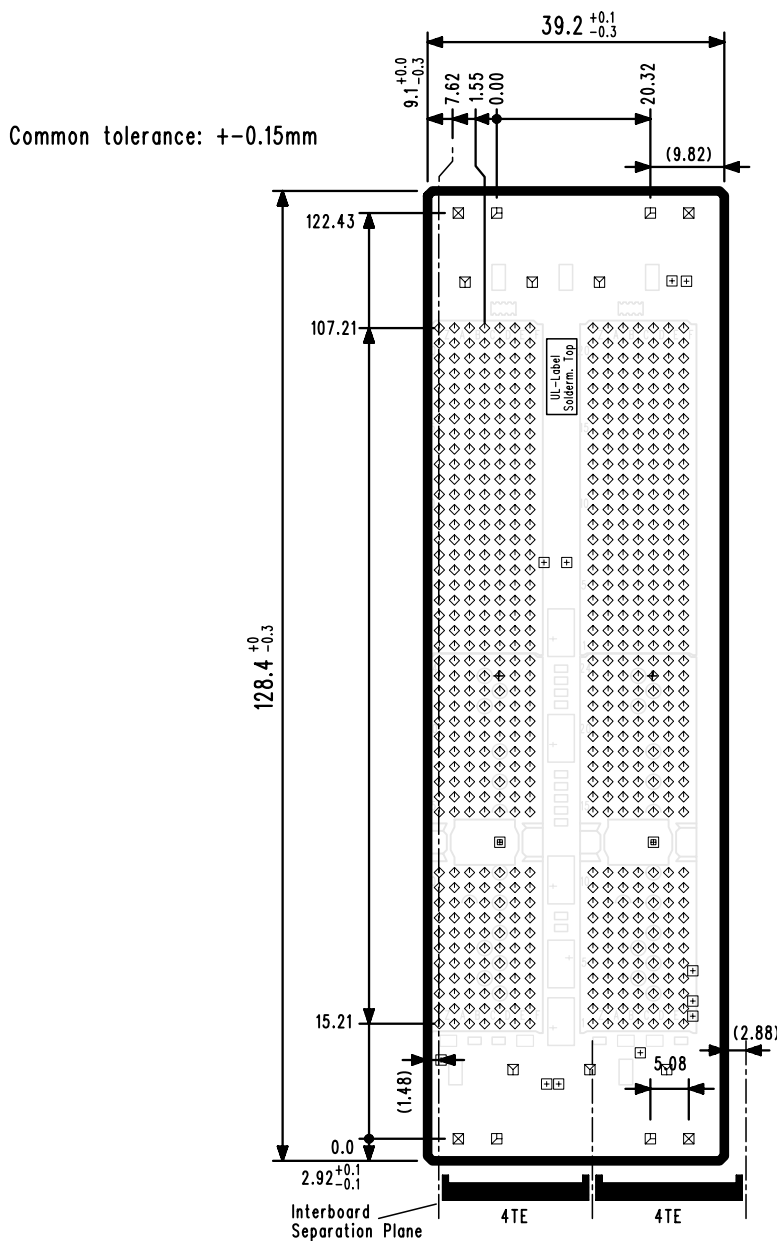
☐ SR2 ☐

○ SR3 ○

BU2676 Rev.BB
CPCI 3HE RA Slot 32bit+
Hartmann Elektronik

Silkscreen Bottom
Pads Bottom

				2007	Date	Name	Title Hartmann Elektronik CPCI 3HE RA 2Slot 32bit+ BUS676 Rev.BB					
				Author	01.03.	Wiedmann						
				Check	01.03.	Wiedmann						
				DIN A4								
				M 1:1								
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART								
							Number					
										Sheet		
Rev	Description	Date	Name	Device: HE-C33RA025--4			File: BUS676BB					

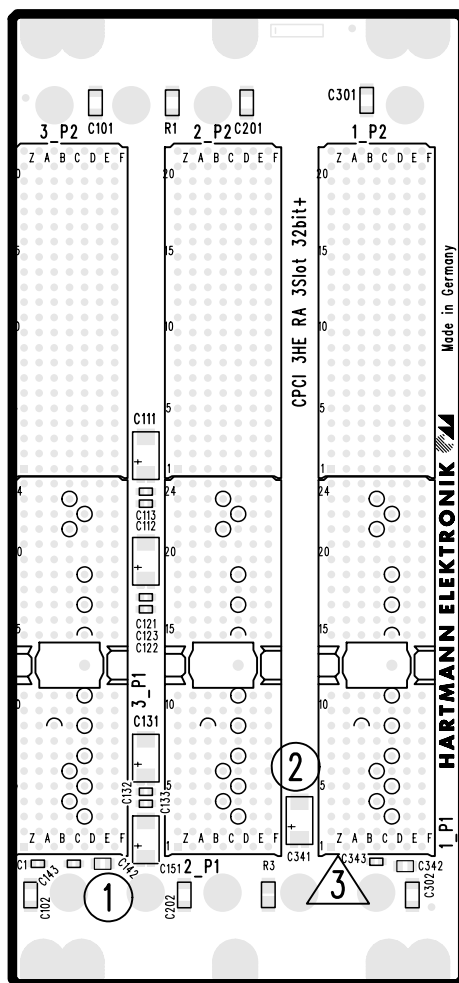


Hartmann Elektronik
CPCI 3HE RA 2Slot 32bit+
BUS676 Rev.BB

				2007	Date	Name	Title Hartmann Elektronik CPCI 3HE RA 2Slot 32bit+ BUS676 Rev.BB		
				Author	01.03.	Wiedmann			
				Check	01.03.	Wiedmann			
				DIN A4 M 1:1					
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet
									of
Rev	Description	Date	Name				Device:	HE-C33RA025--4	File: BUS676BB

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



Hartmann Elektronik
CPC1 3HE RA 3Slot 32bit+
BUS675 Rev.BB

Silkscreen Top
Pads Top

				2006	Date	Name	Title	Hartmann Elektronik CPCI 3HE RA 3Slot 32bit+ BUS675		Rev.BB
				Author	12.09.	Wiedmann				
				Check	12.09.	Wiedmann				
				DIN A4 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number	Sheet		
								of		
Rev	Description	Date	Name							Device:

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X4 Pin Assignment

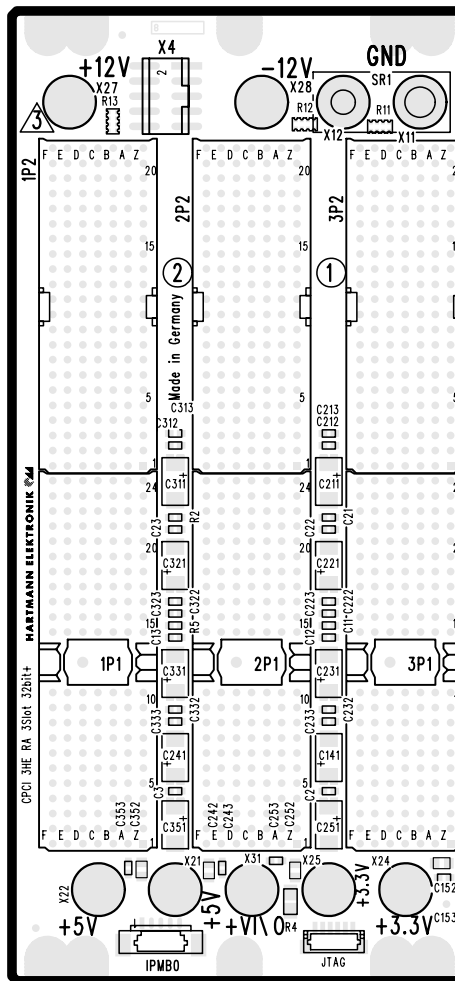
Pin	Signal	Pin	Signal
1	PRST-	2	FAL-
3	DEG-	4	+3.3V-Sense
5	+3.3V	6	GND-Sense (+3.3V)
7	+5V	8	+5V-Sense
9	GND	10	GND-Sense (+5V)

IPMB0 Pin Assignment

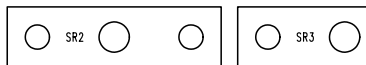
Pin	Signal
1	IPMB_SCL
2	GND
3	IPMB_SDA
4	IPMB_PWR
5	SMB_RSV

JTAG Pin Assignment

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



Busbar for +5V keying



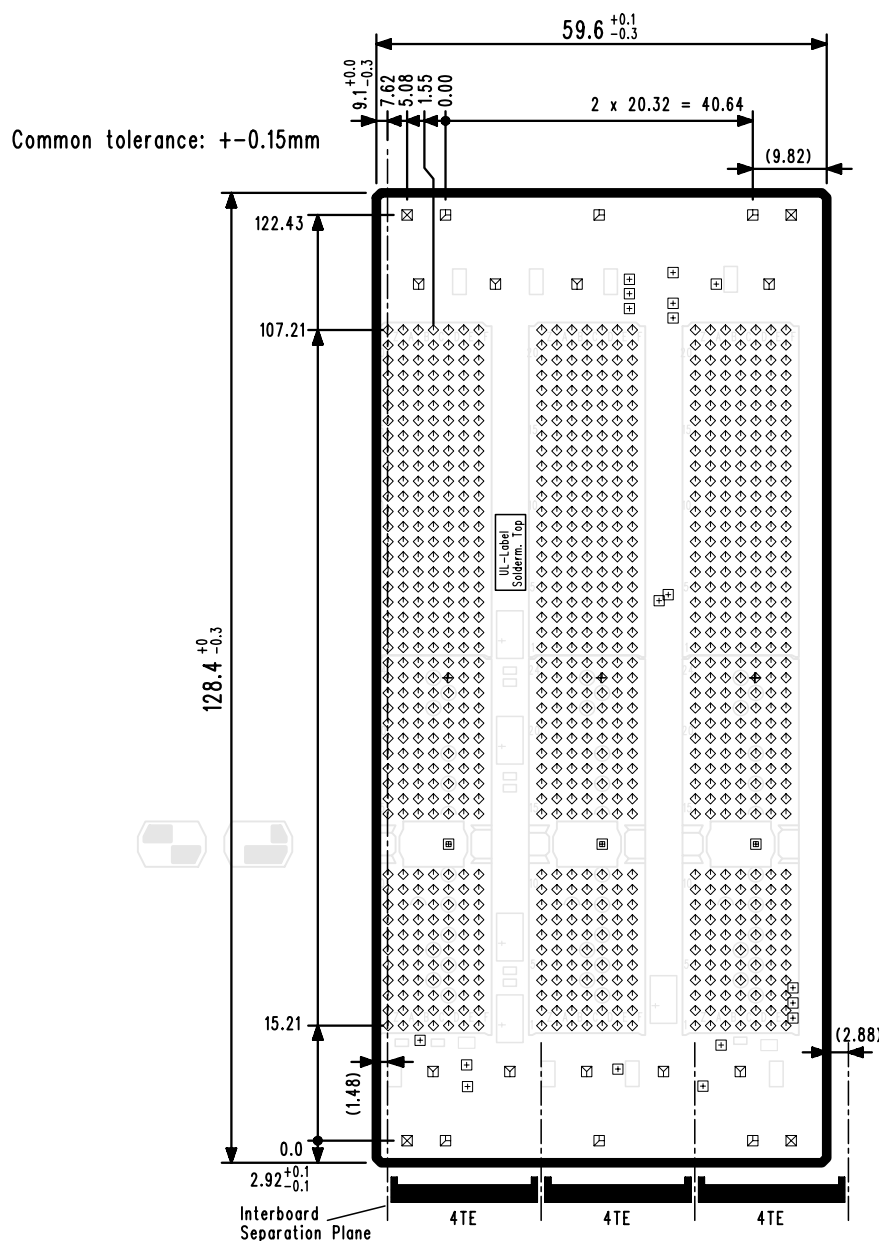
Busbar for +3.3V keying



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

Silkscreen Bottom
Pads Bottom

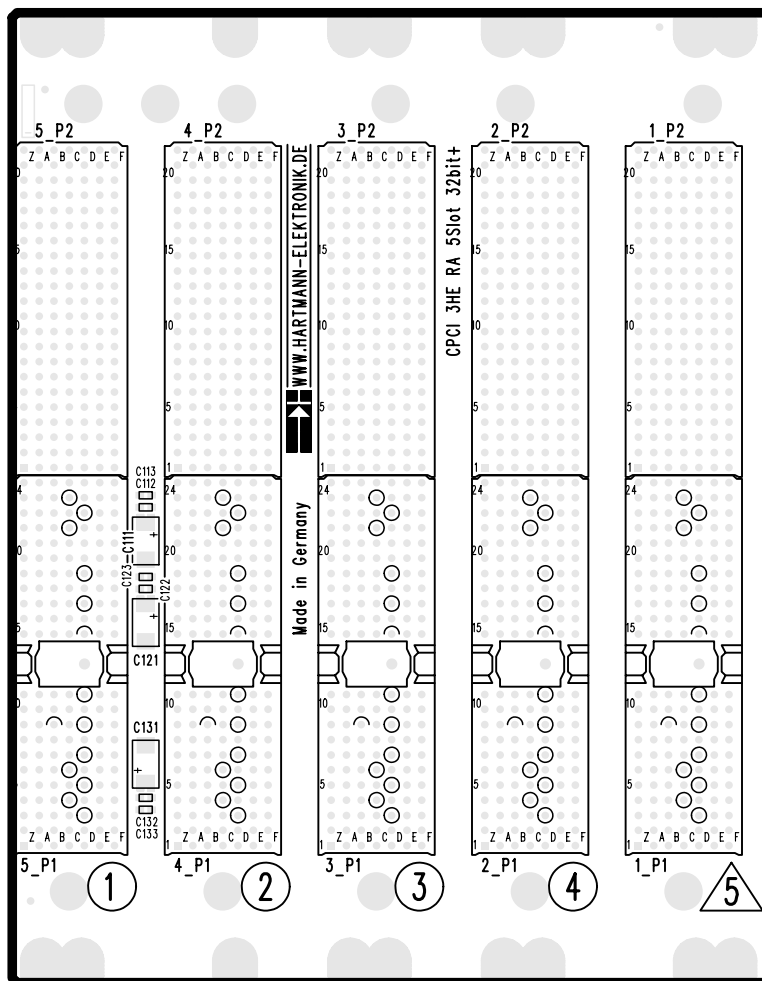
				2006	Date	Name	Title Hartmann Elektronik CPCI 3HE RA 3Slot 32bit+ BUS675 Rev.BB					
				Author	12.09.	Wiedmann						
				Check	12.09.	Wiedmann						
				DIN A4 M 1:1								
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet			
									of			
Rev	Description	Date	Name							Device:	HE-C33RA03---4	File:



Hartmann Elektronik
CPCI 3HE RA 3Slot 32bit+
BUS675 Rev.BB

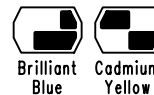
				2006	Date	Name	Title	Hartmann Elektronik CPCI 3HE RA 3Slot 32bit+ BUS675 Rev.BB	
				Author	12.09.	Wiedmann			
				Check	12.09.	Wiedmann			
				DIN A4 M 1:1					
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet
									of
Rev	Description	Date	Name				Device:	HE-C33RA03---4	File: BUS675BB

TOP VIEW



Keying

+5V +3.3V



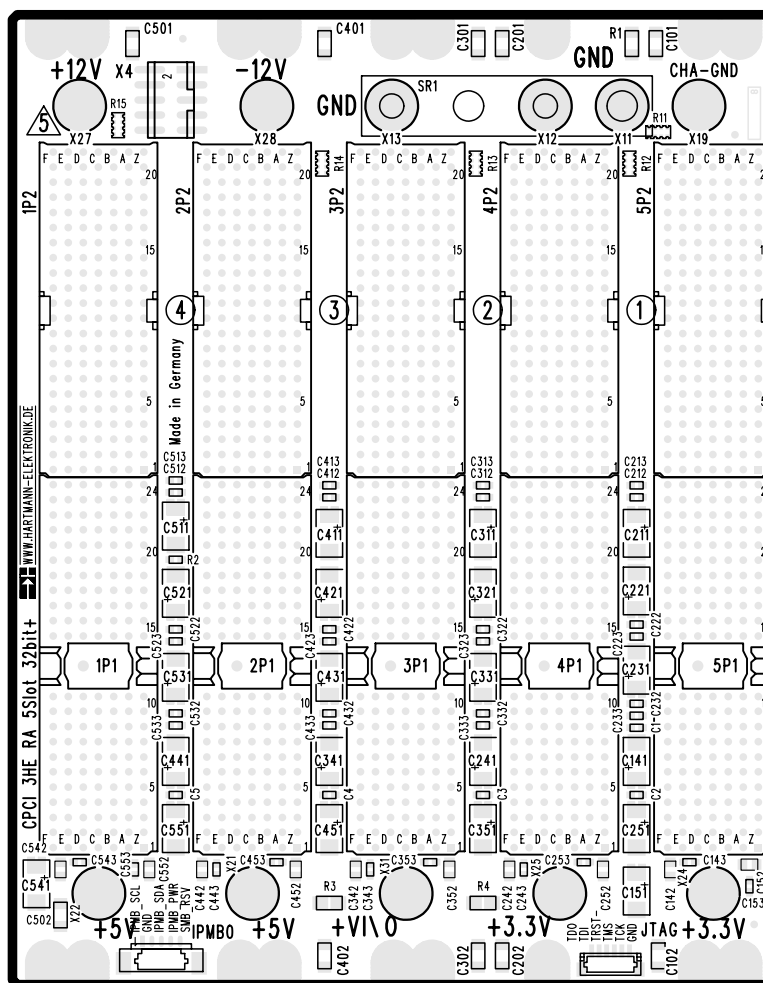
Hartmann Elektronik
CPCI 3HE RA 5Slot 32bit+
BUS673 Rev.BA

Silkscreen Top
Pads Top

				2000	Date	Name	Title	Hartmann Elektronik CPCI 3HE RA 5Slot 32bit+ BUS673 Rev.BA		
				Author	10.11.	Ruthardt				
				Check	10.11.	Ruthardt				
				DIN A4 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet	
									of	
Rev	Description	Date	Name				Device:	HE-C33RA055--4	File:	BUS673BA

Without geographic addressing on request

BOTTOM VIEW



Shrouds
1P1 - 5P1
on request

Busbar for +5V keying

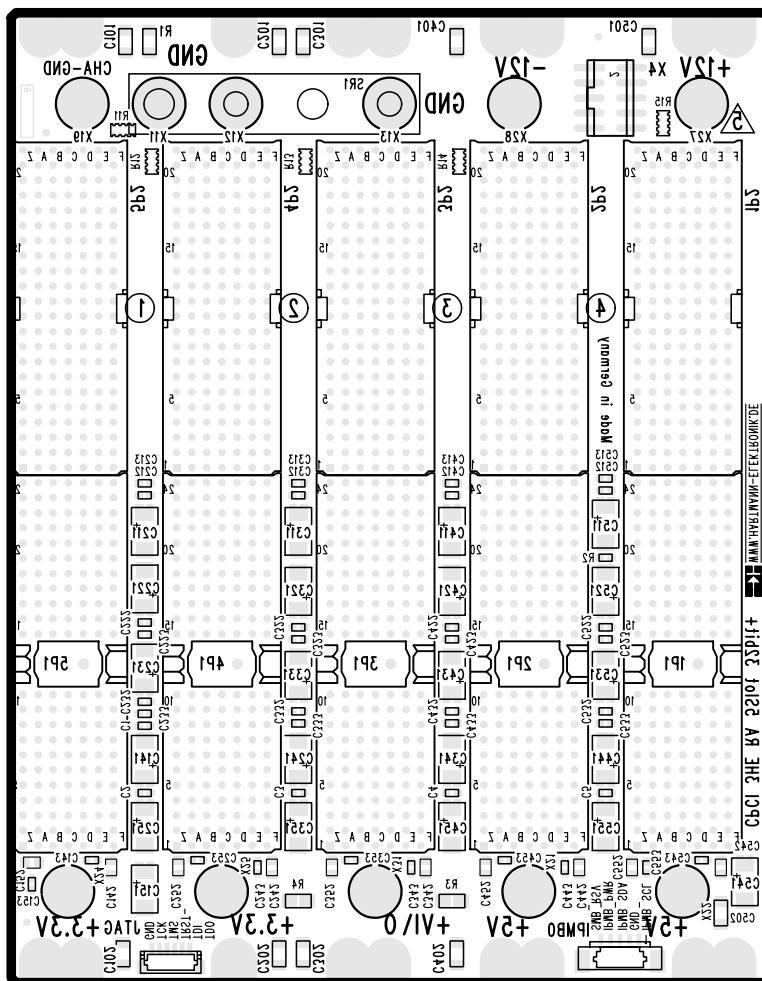
Busbar for +3.3V keying

Silkscreen Bottom
Pads Bottom

Hartmann Elektronik
CPCI 3HE RA 5Slot 32bit+
Rev.BA

				2000	Date	Name	Title Hartmann Elektronik CPCI 3HE RA 5Slot 32bit+ BUS673 Rev.BA			
				Author	10.11.	Ruthardt				
				Check	10.11.	Ruthardt				
				DIN A4 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number	Sheet		
								of		
Rev	Description	Date	Name				Device:	HE-C33RA055--4	File:	BUS673BA

BOTTOM VIEW



2 rounds
191 - 192
on request

Busbar for +5V keying

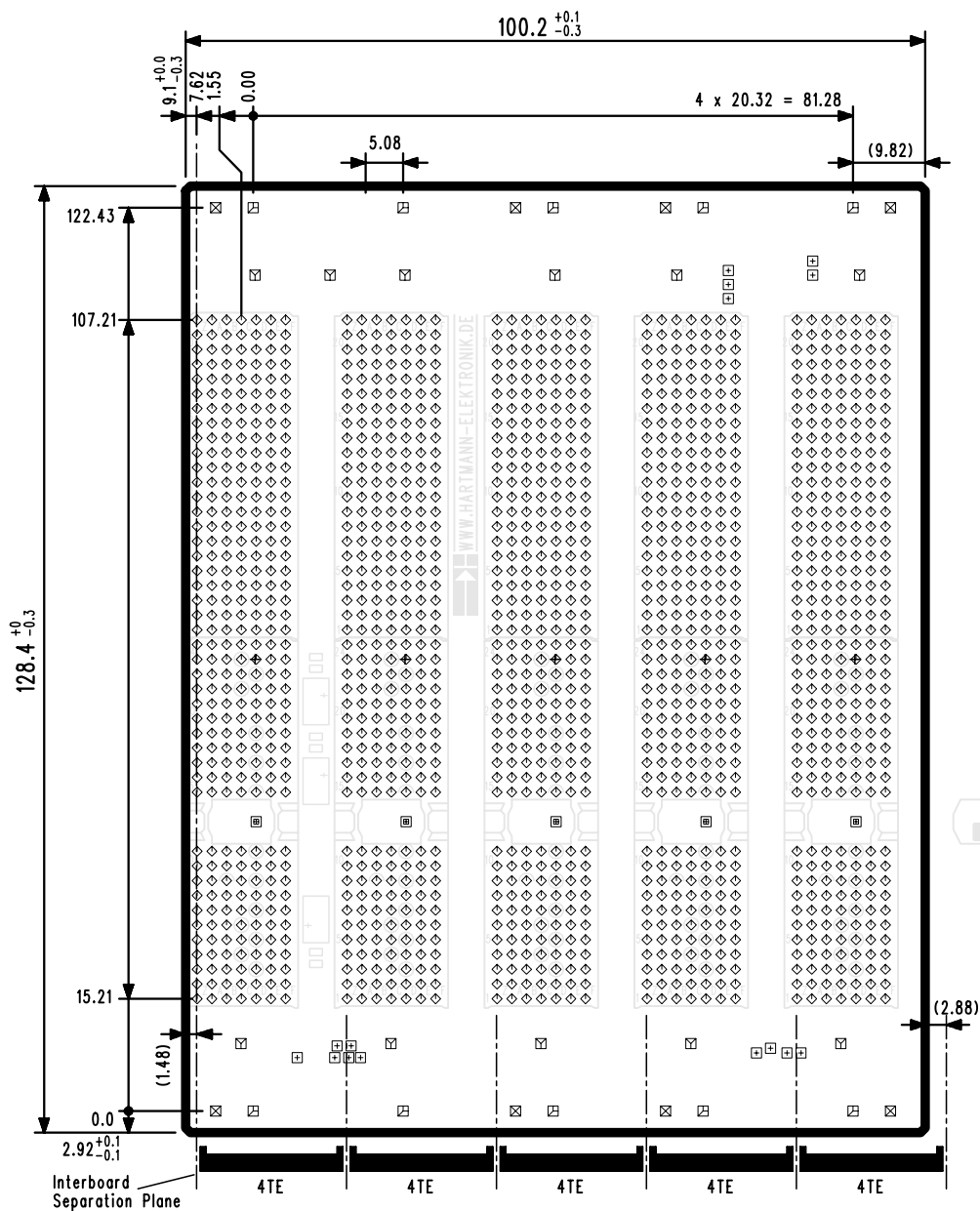
Busbar for +3.3V keying

Hartmann Elektronik
CPCI 3HE RA 5Slot 32bit+
BUS673 Rev.BA

Pods Bottom
Silkscreen Bottom

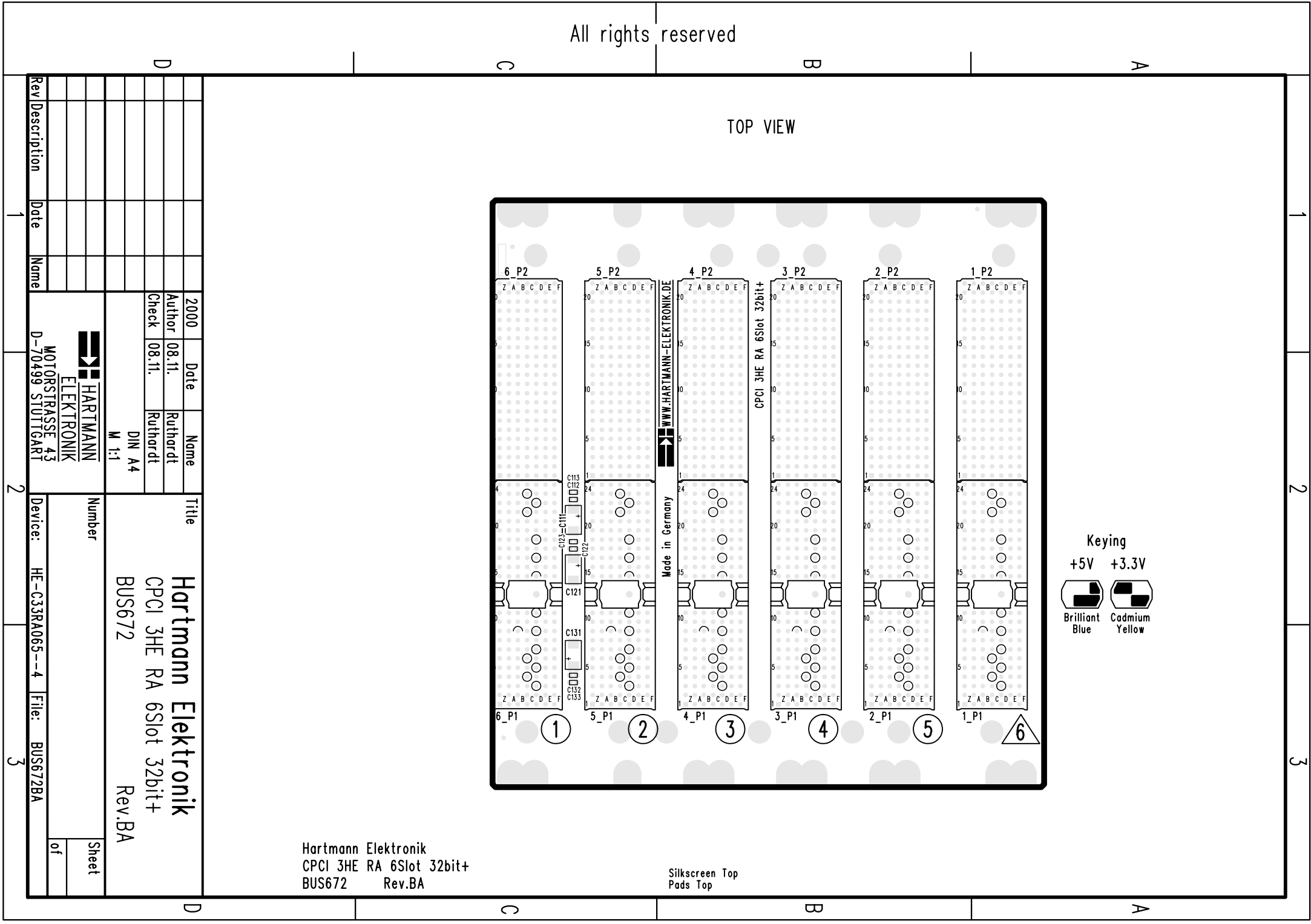
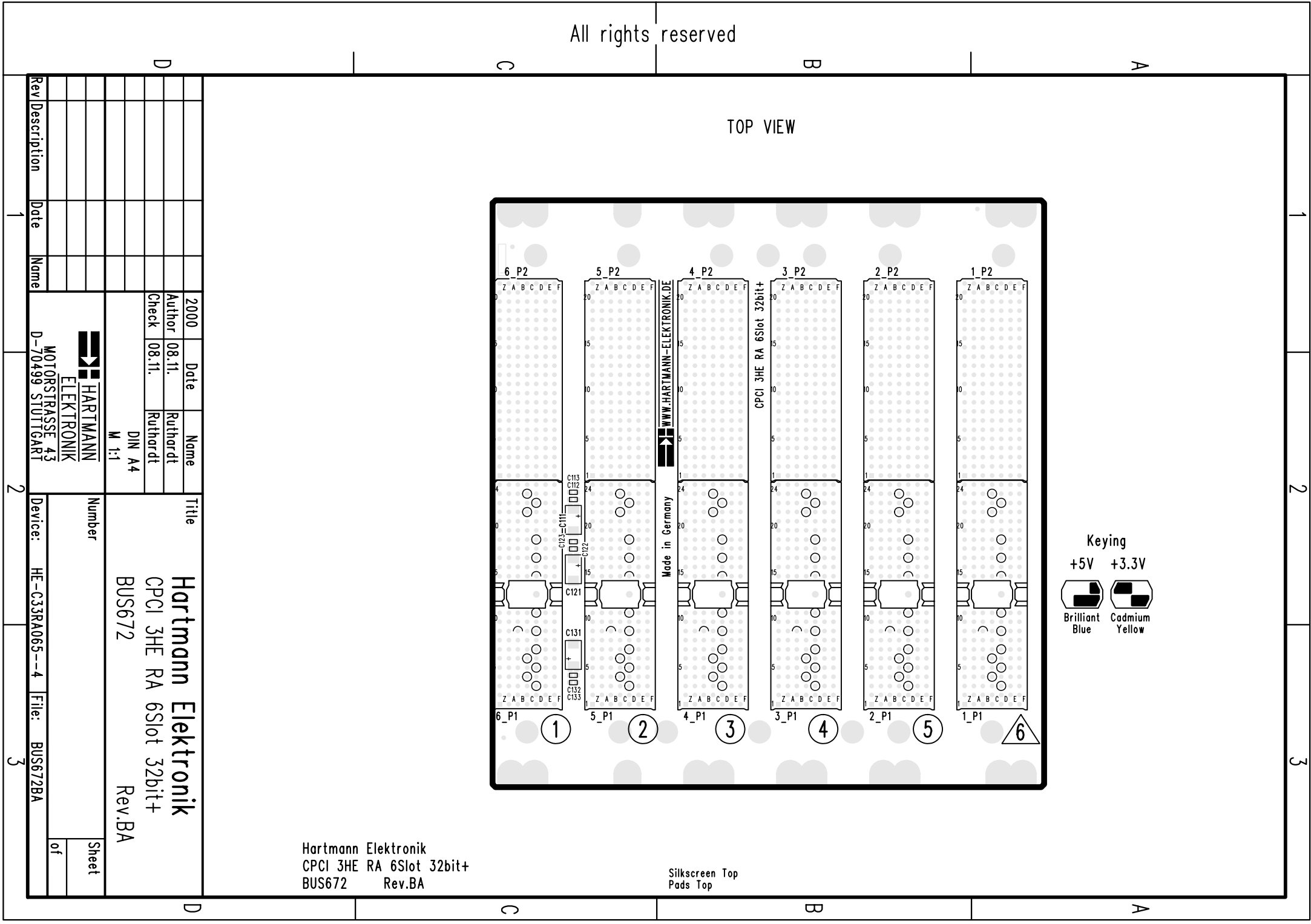
				2000	Date	Name	Title Hartmann Elektronik CPCI 3HE RA 5Slot 32bit+ BUS673 Rev.BA			
				Author	10.11.	Ruthardt				
				Check	10.11.	Ruthardt				
				DIN A4						
				M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number	Sheet		
									of	
Rev	Description	Date	Name				Device: HE-C33RA055--4			File: BUS673BA

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Hartmann Elektronik
CPCI 3HE RA 5Slot 32bit+
BUS673 Rev.BA

				2000	Date	Name	Title Hartmann Elektronik CPCI 3HE RA 5Slot 32bit+ BUS673 Rev.BA			
				Author	10.11.	Ruthardt				
				Check	10.11.	Ruthardt				
				DIN A4 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet	
									of	
Rev	Description	Date	Name				Device: HE-C33RA055--4		File: BUS673BA	

[illegible][illegible][illegible][illegible][illegible][illegible]

Without geographic addressing on request

1 2 3

1 2 3

RevDescription Date Name

2000 Date Name

Author 08.11. Ruthardt

Check 08.11. Ruthardt

DIN A4

M 1:1

HARTMANN ELEKTRONIK

MOTORSTRASSE 43

D-70499 STUTTGART

Device: HE-C33RA065--4 File: BUS672BA

Sheet of

Hartmann Elektronik

CPCI 3HE RA 6Slot 32bit+

BUS672

Rev.BA

TOP VIEW

BOTTOM VIEW

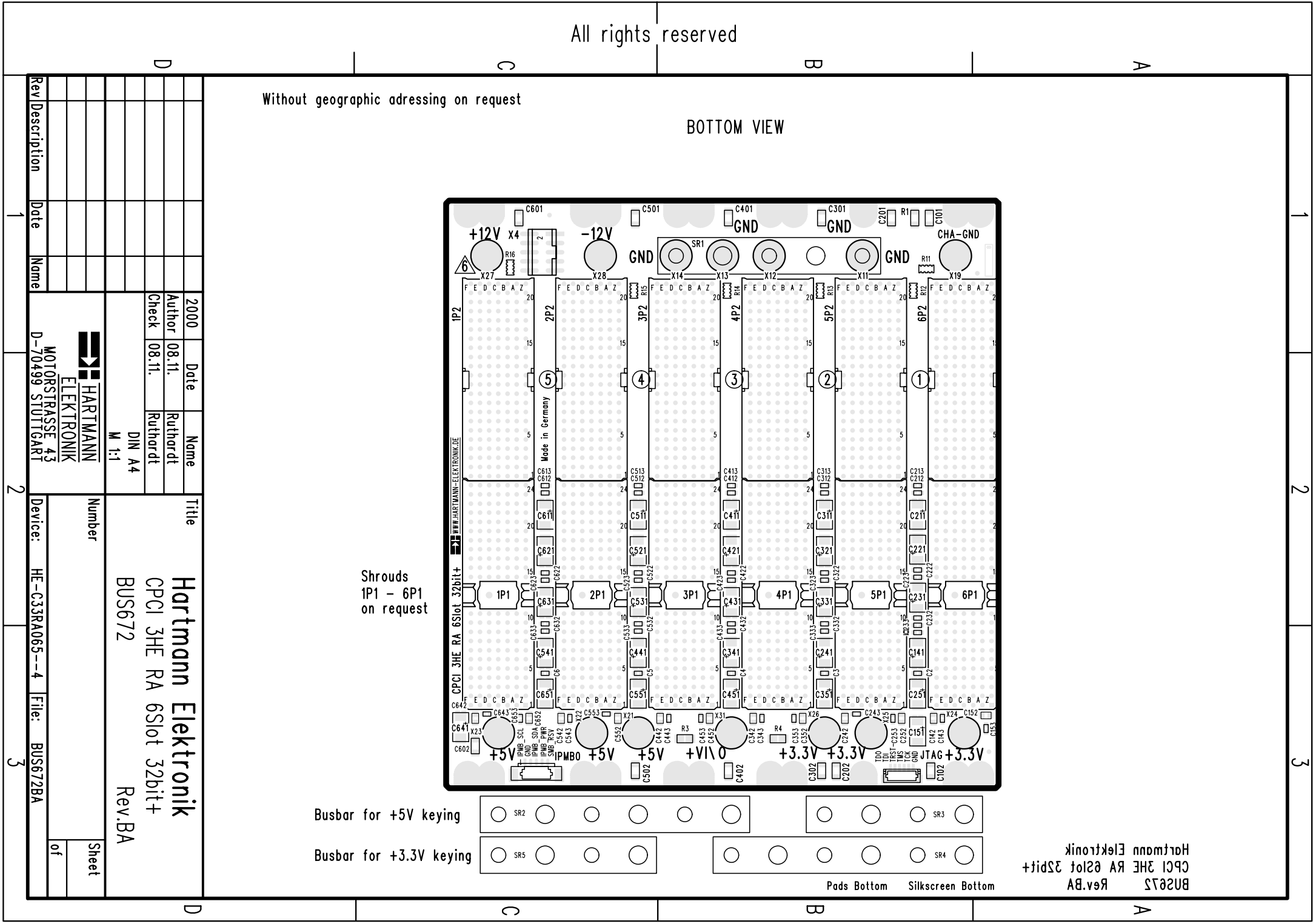
Shrouds 1P1 - 6P1 on request

Busbar for +5V keying

Busbar for +3.3V keying

Pads Bottom Silkscreen Bottom

BUS672 Rev.BA CPCI 3HE RA 6slot 32bit+ Hartmann Elektronik

[illegible][illegible]

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BOTTOM VIEW

Without geographic addressing on request

Shrouds
1P1 - 6P1
on request

Busbar for +5V keying

Busbar for +3.3V keying

Pads Bottom Silkscreen Bottom

Hartmann Elektronik
CPCI 3HE RA 6Slot 32bit+
Rev.BA

Rev.BA
CPCI 3HE RA 6Slot 32bit+

Rev	Description	Date	Name
1			

Author	Date	Name
Ruthardt	08.11.	2000
Ruthardt	08.11.	Check

DIN A4
M 1:1

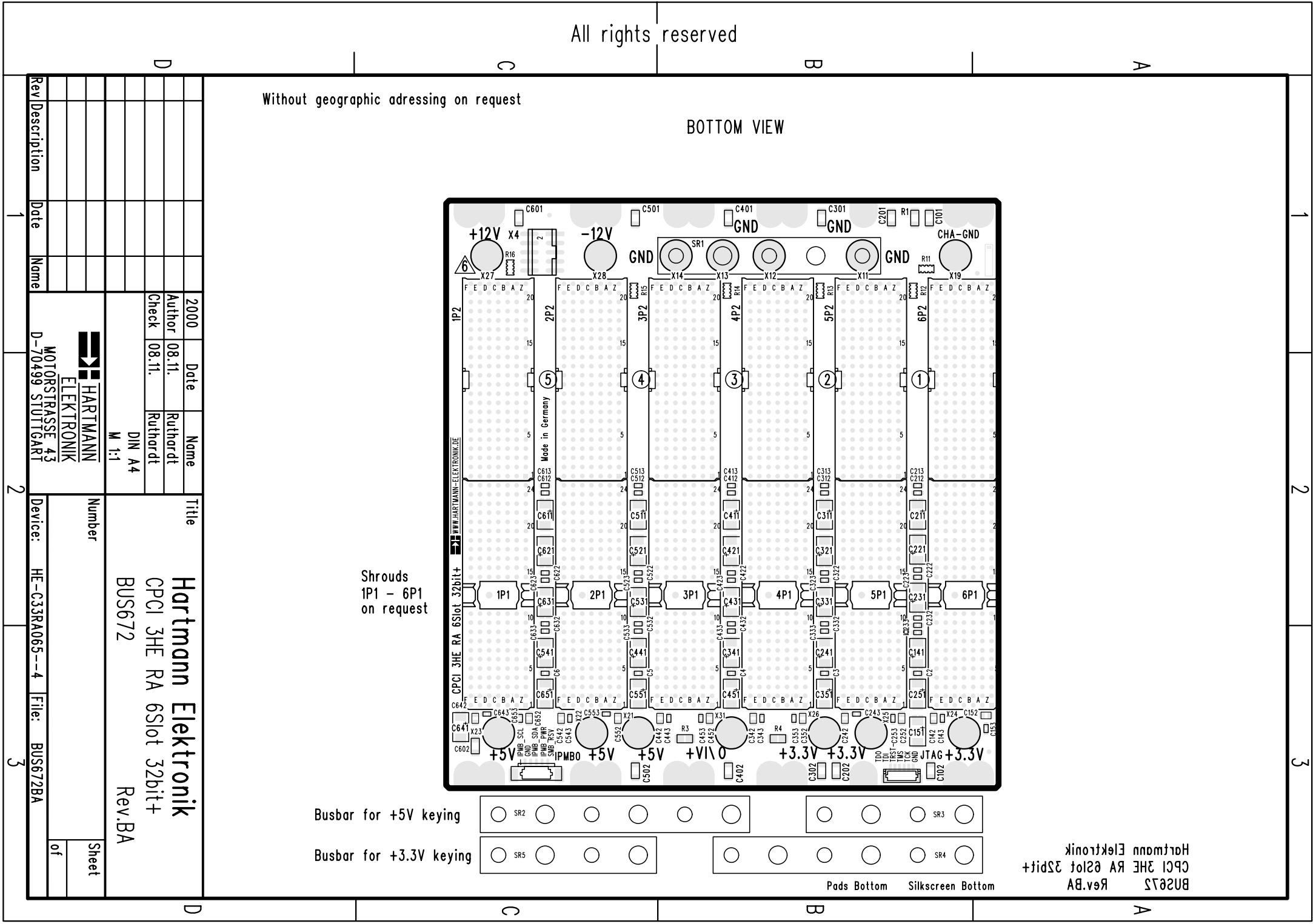
HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

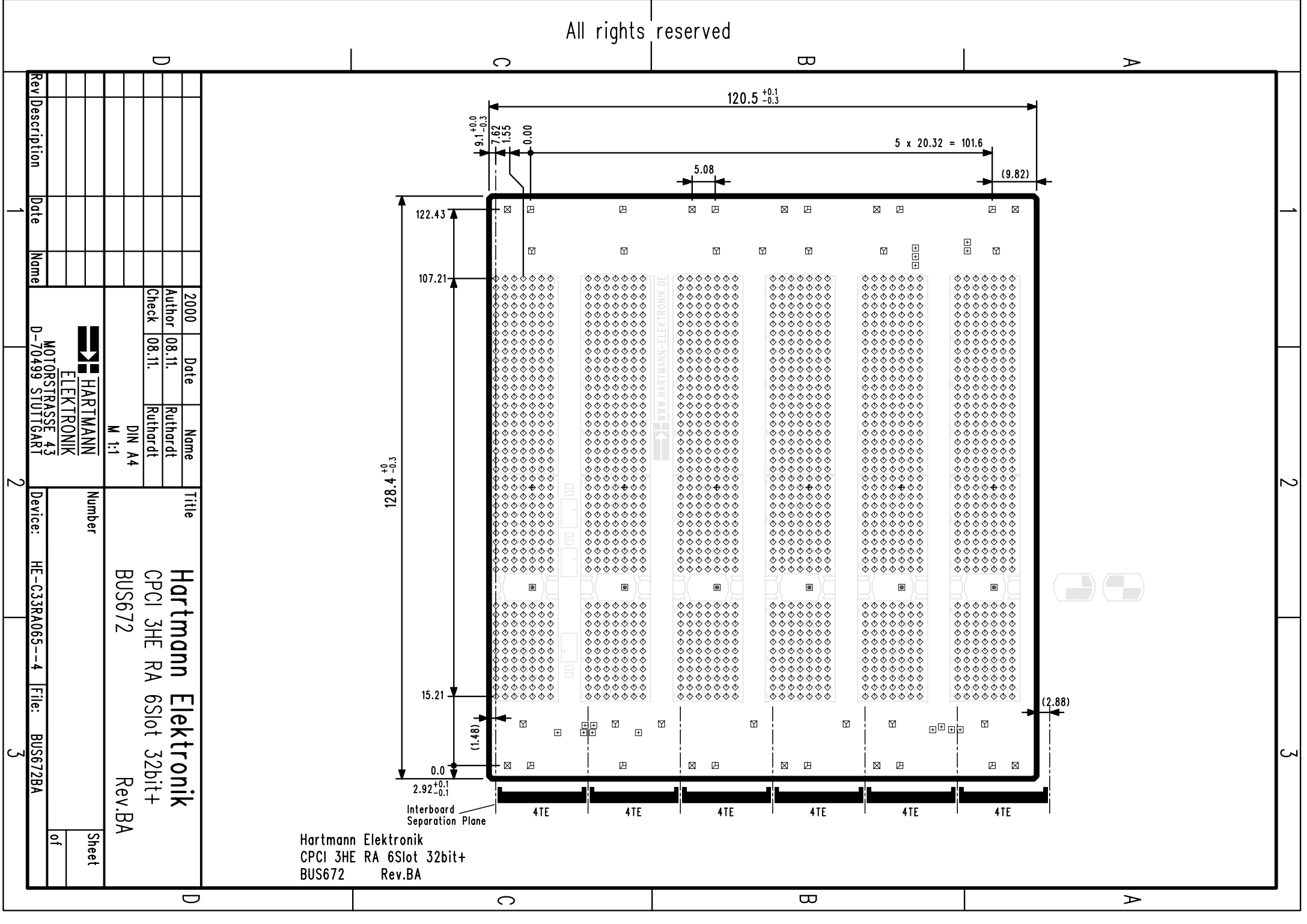
Title
Hartmann Elektronik
CPCI 3HE RA 6Slot 32bit+
BUS672
Rev.BA

Number

Device: HE-C33RA06S--4 File: BUS672BA

Sheet
of

[illegible][illegible][illegible]



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120.5^{+0.1}_{-0.3}

5 x 20.32 = 101.6

(9.82)

5.08

122.43

107.21

15.21

0.0

2.92^{+0.1}_{-0.1}

(1.48)

(2.88)

4TE

4TE

4TE

4TE

4TE

4TE

Interboard Separation Plane

128.4⁺⁰_{-0.3}

Hartmann Elektronik

CPCI 3HE RA 6Slot 32bit+

BUS672

Rev.BA

Rev	Description	Date	Name
1			

2000	Date	Name
Author	08.11.	Ruthardt
Check	08.11.	Ruthardt

DIN A4

M 1:1

Hartmann Elektronik

MOTORSTRASSE 43

D-70499 STUTTGART

Device: HE-C33RA065--4

File: BUS672BA

Sheet

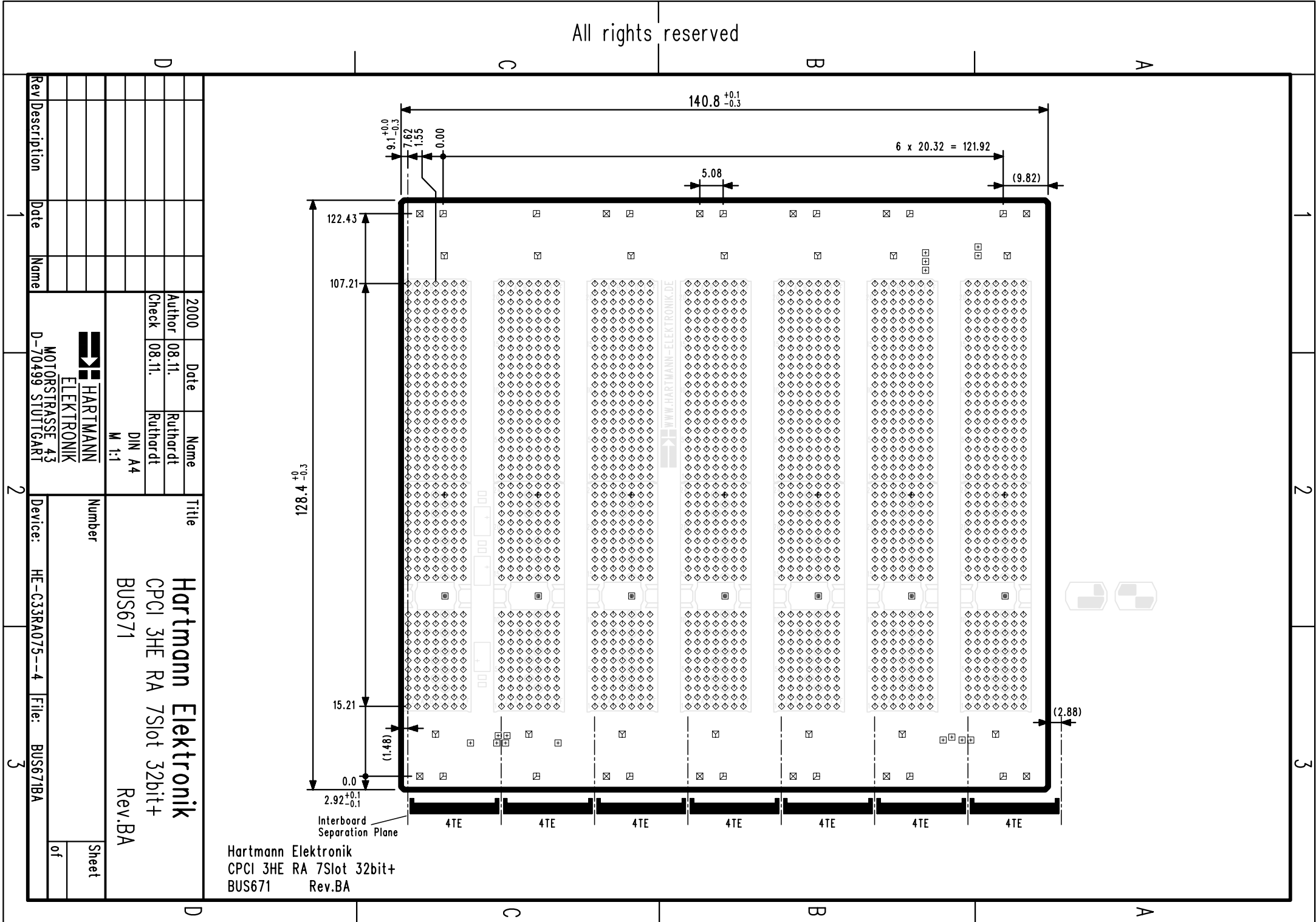
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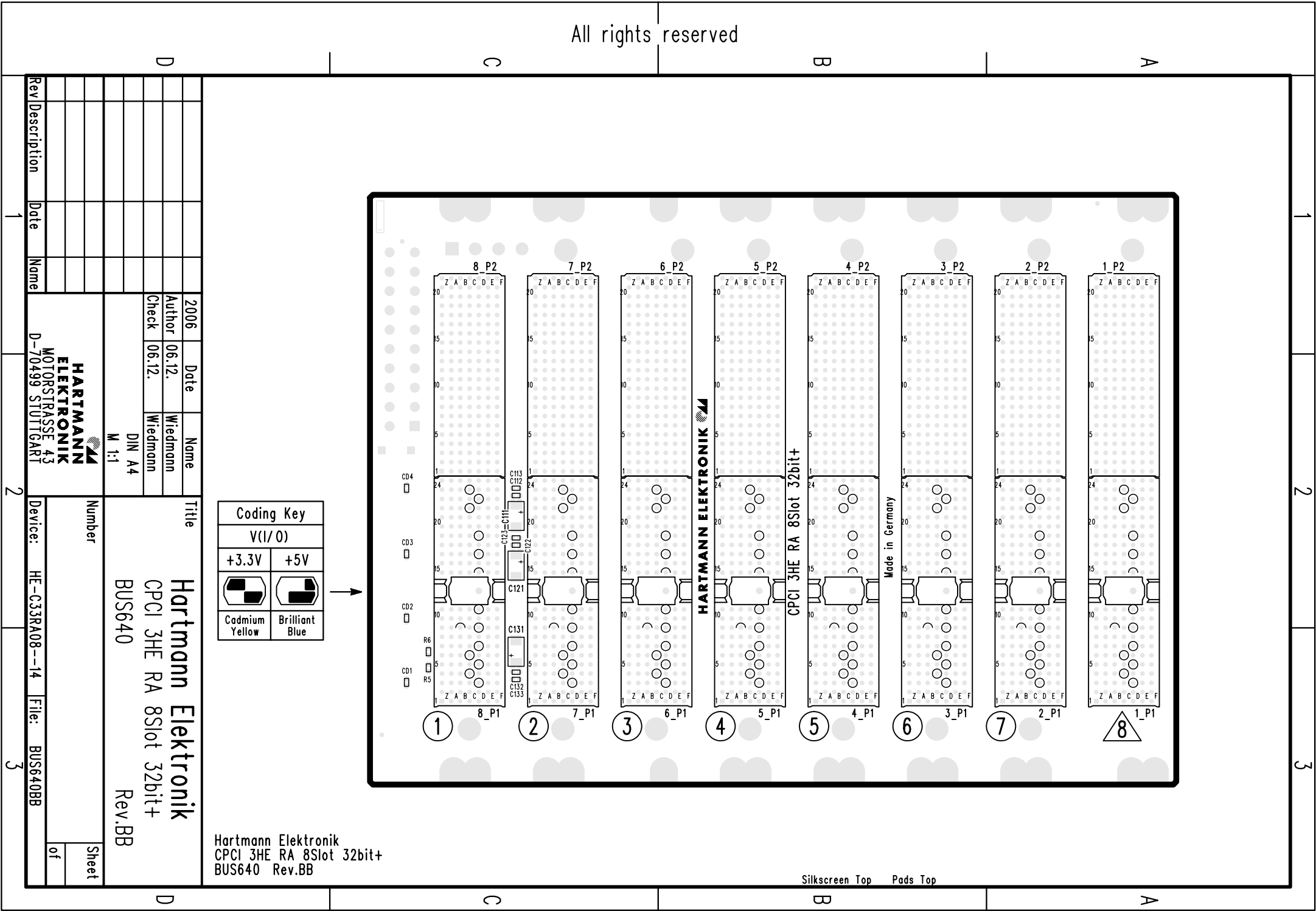
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[illegible]

Silkscreen Top
Pads Top

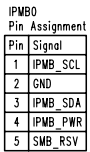
[illegible]





JTAG
Pin Assignment

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



BU2640 Rev.BB
CPCI 3HE RA 82lot 32pit+
Hartmann Elektronik

Sheet	
of	

[illegible][illegible][illegible][illegible]

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Technical drawing of a PCB layout for Hartmann Elektronik CPC1 3HE RA 8Slot 32bit+ BUS640. The drawing shows a top-down view of the board with dimensions, component footprints, and a detailed component list table.

Dimensions:

- Overall width: 175.2^{+0.1}_{-0.3} mm
- Overall height: 128.4^{+0.1}_{-0.1} mm
- Slot width: 20.32 mm (7 slots = 142.24 mm)
- Slot spacing: 5.08 mm
- Slot offset: 9.82 mm
- Slot width: 2.88 mm
- Slot offset: 15.21 mm
- Slot offset: 0.0 mm
- Slot offset: 2.92^{+0.1}_{-0.1} 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

Component List Table:

Rev	Description	Date	Name	2006	Date	Name	Title
1				Author	06.12.	Wiedmann	Hartmann Elektronik
				Check	06.12.	Wiedmann	CPC1 3HE RA 8Slot 32bit+
						DIN A4	BUS640
						M 1:1	Rev.BB

Other Information:

- Common Tolerance: ± 0.15 mm
- Device: HE-C33RA08--14
- File: BUS640BB
- Sheet: 1 of 3
- Hartmann Elektronik CPC1 3HE RA 8Slot 32bit+ BUS640 Rev.BB
- Interboard Separation Plane

[illegible][illegible]

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Technical drawing of a PCB layout for Hartmann Elektronik CPCI 3HE RA 8Slot 32bit+ BUS640. The drawing shows a top-down view of the board with dimensions, component footprints, and a detailed component list table.

Dimensions:

- Overall width: 175.2^{+0.1}_{-0.3} mm
- Overall height: 128.4^{+0.1}_{-0.1} mm
- Slot pitch: 20.32 mm (7 x 20.32 = 142.24 mm)
- Slot width: 5.08 mm
- Slot depth: 2.88 mm
- Slot offset: 2.92^{+0.1}_{-0.1} mm
- Slot width: 4TE
- Slot depth: 4TE
- Slot offset: 4TE
- Slot width: 4TE
- Slot depth: 4TE
- Slot offset: 4TE
- Slot width: 4TE
- Slot depth: 4TE
- Slot offset: 4TE
- Slot width: 4TE
- Slot depth: 4TE
- Slot offset: 4TE

Component List Table:

Rev	Description	Date	Name	2006	Date	Name	Title
1				Author	06.12.	Wiedmann	Hartmann Elektronik
				Check	06.12.	Wiedmann	CPCI 3HE RA 8Slot 32bit+
						DIN A4	BUS640
						M 1:1	Rev.BB

Notes:

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

Legend:

- : Component footprint
- : Hole
- ⊕: Pad
- ⊖: Pad
- ⊕⊖: Pad
- ⊖⊕: Pad
- ⊕⊖⊕: Pad
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- ⊕⊖⊕⊖: Pad
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Technical drawing of a PCB layout for Hartmann Elektronik CPCI 3HE RA 8Slot 32bit+ BUS640. The drawing shows a top-down view of the board with dimensions, component footprints, and a detailed component list table.

Dimensions:

- Overall width: 175.2^{+0.1}_{-0.3} mm
- Overall height: 128.4^{+0.1}_{-0.1} mm
- Slot pitch: 20.32 mm (7 x 20.32 = 142.24 mm)
- Slot width: 5.08 mm
- Slot depth: 2.88 mm
- Slot offset: 9.82 mm
- Slot width (bottom): 2.92^{+0.1}_{-0.1} mm
- Slot offset (bottom): 15.21 mm
- Slot width (top): 2.32^{+0.0}_{-0.3} mm
- Slot offset (top): 107.21 mm
- Slot width (middle): 7.62 mm, 1.55 mm, 0.00 mm

Component List:

Rev	Description	Date	Name	2006	Date	Name	Title
1				Author	06.12.	Wiedmann	Hartmann Elektronik
				Check	06.12.	Wiedmann	CPCI 3HE RA 8Slot 32bit+
						DIN A4	BUS640
						M 1:1	Rev.BB

Other Information:

- Common Tolerance: ±0.15 mm
- Device: HE-C33RA08--14
- File: BUS640BB
- Sheet: 1 of 3
- Hartmann Elektronik CPCI 3HE RA 8Slot 32bit+ BUS640 Rev.BB
- Interboard Separation Plane
- Soldermask
- Top
- Left - III

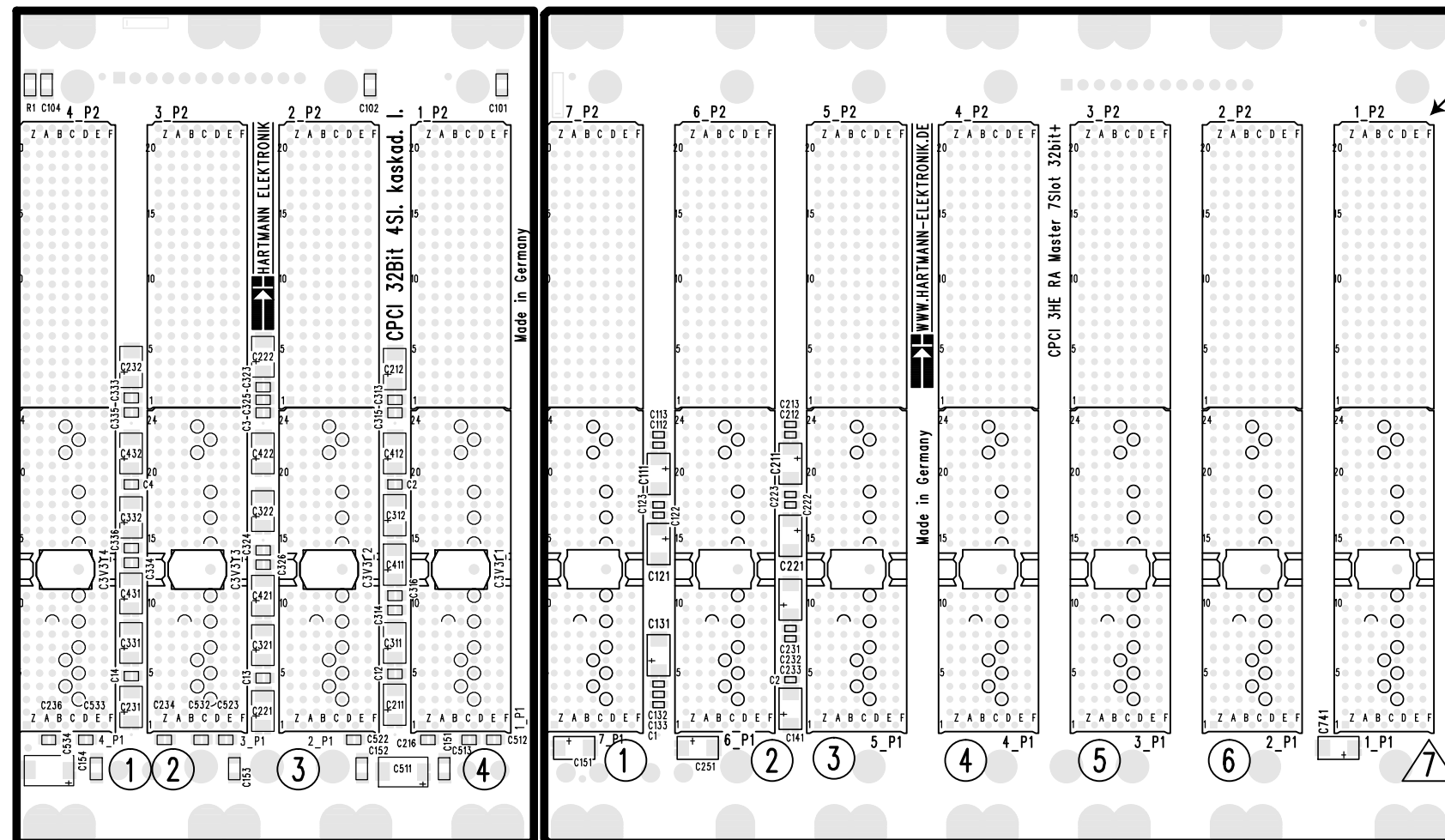
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Top view

Systemslot

Coding Key	
V(I/O)	
3,3V	5V
	
Cadmium Yellow	Brilliant Blue



				2000	Date	Name	CompactPCI® PICMG 2.0 R3.0 Backplane 3HE RA 11Slot 32bit 33MHz
				Author	18.12.	Wiedmann	
				Check	18.12	Brosowski	
				DIN A3 M 1:1			
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			
Rev	Description	Date	Name	Order No.:			Sheet
				+5V: 33RA113514			of 2
				Device: BUS659BA+BUS654			File: HE-C33RA114-14

A

B

B

C

C

D

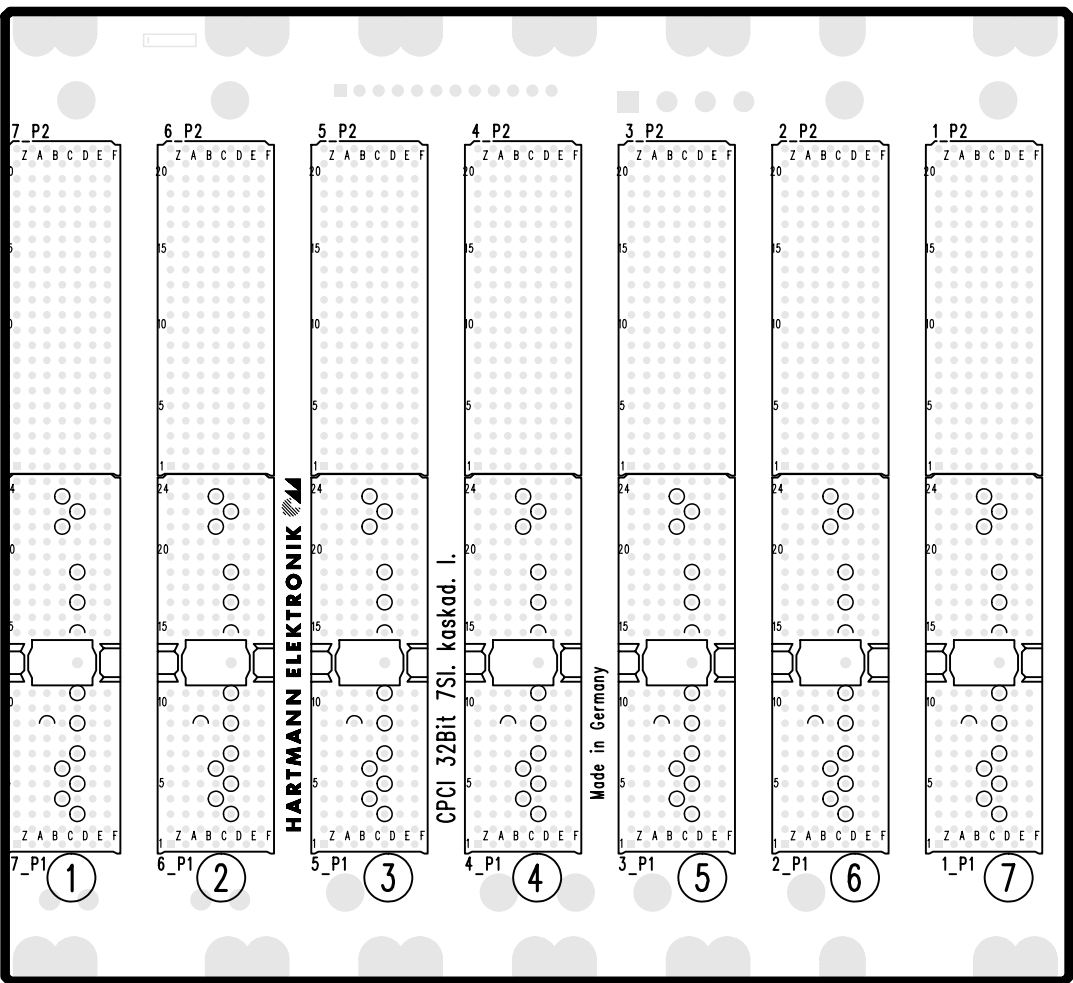
D



				2000	Date	Name	CompactPCI® PICMG 2.0 R3.0 Backplane 3HE RA 11Slot 32bit 33MHz
				Author	18.12.	Wiedmann	
				Check	18.12	Brosowski	
				DIN A3 M 1:1			
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			
Rev	Description	Date	Name	Order No.:			Sheet 2 of 2
				+5V: 33RA113514			Device: BUS659BA+BUS654

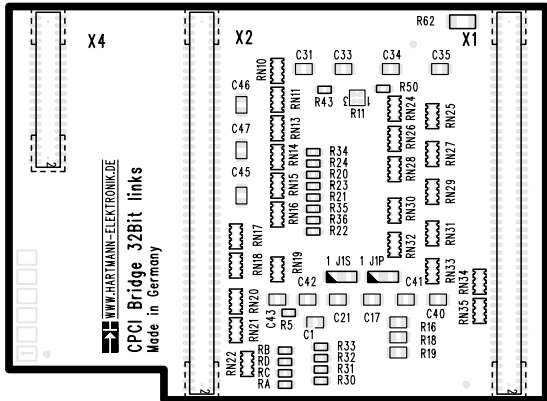
Coding Key	
V(I/O)	
+3.3V	+5V
	
Cadmium Yellow	Brilliant Blue

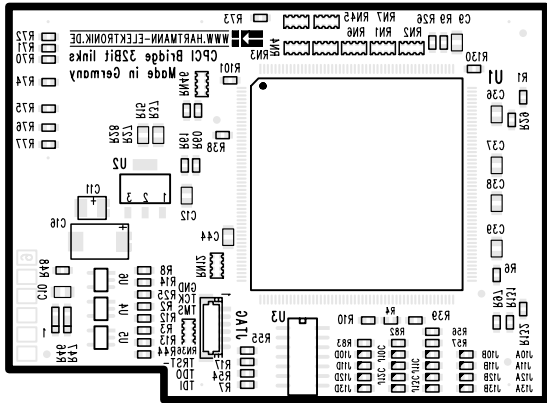
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 Pads B-Seite



Hartmann Elektronik
CPCI 32Bit 7Sl. kaskad. I.
BUS651
Rev.BB

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