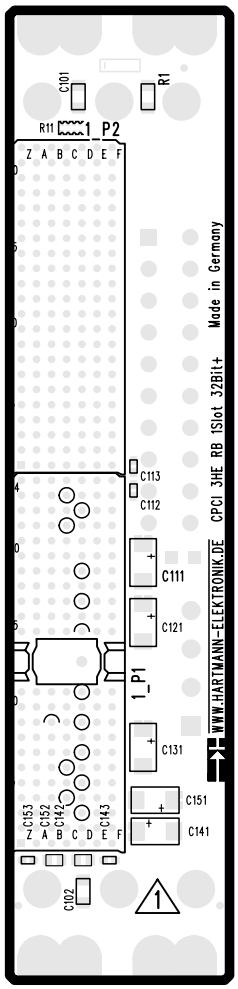
All rights reserved

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
				Author	21.03.	Wiedmann
				Check	21.03.	Ruthardt
						DIN A4
						M 1:1

Rev	Description	Date	Name

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

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

Number

Sheet
of

Device: HE-C33RB01--14 File: BUS727BA

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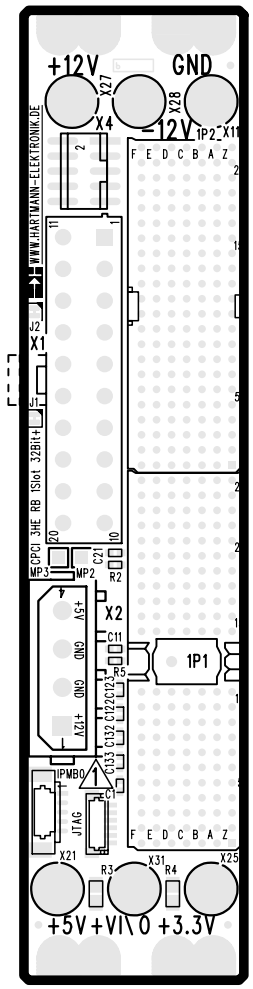

Busbar V(I/O) = 5V SR2

Busbar V(I/O) = 3.3V SR1

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

Silkscreen Bottom
Pads Bottom

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

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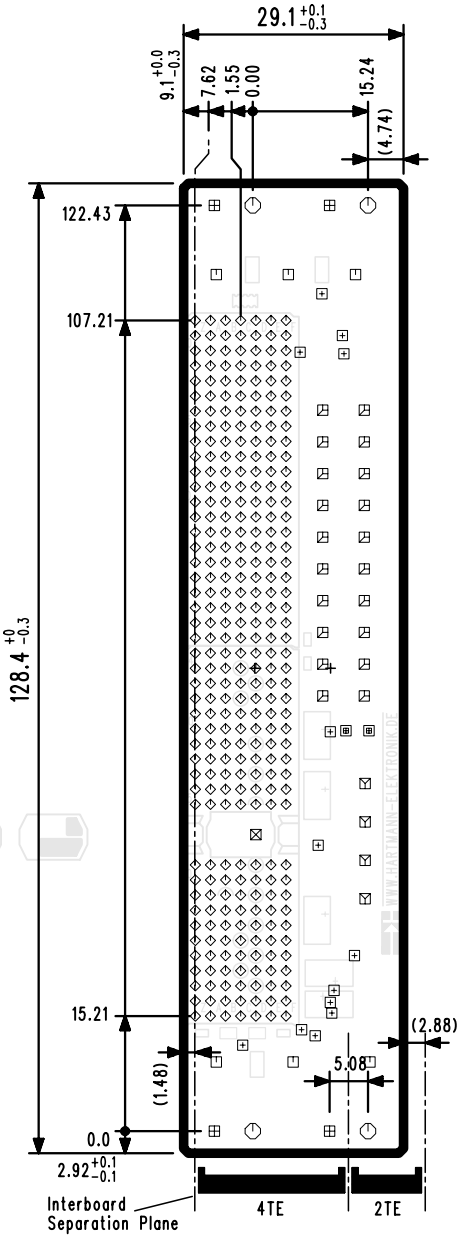
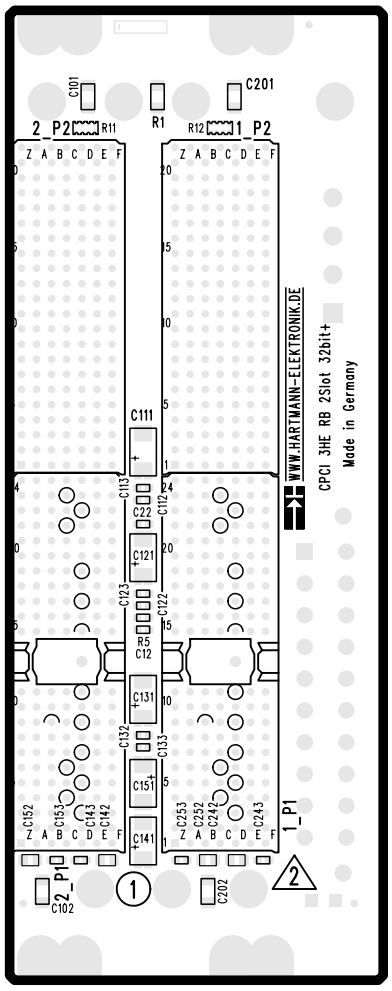


Hartmann Elektronik
CPCI 3HE RB 1Slot 32Bit+
BUS727 Rev.BA

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

All rights reserved

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

Rev	Description	Date	Name

	Date	Name
2001		
Author	28.02.	Wiedmann
Check	28.02.	Hamann

DIN A4
M 1:1

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

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

Number

Sheet
of

Device: HE-C33RB02---4 File: BUS726BA

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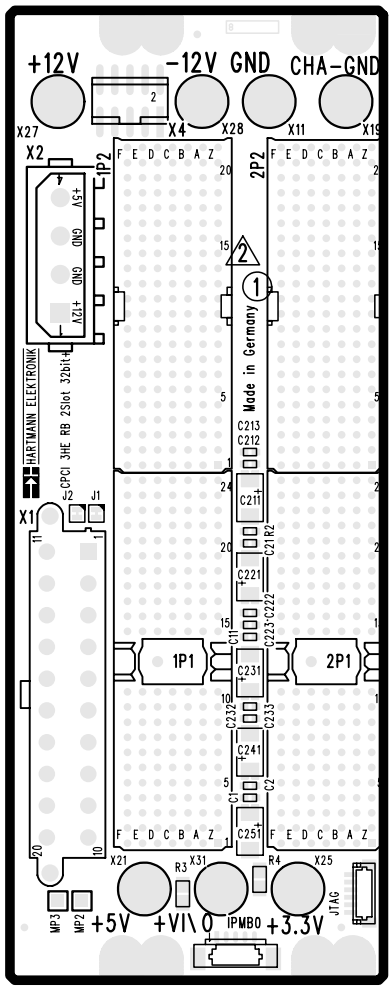

Busbar V(I/O) = 5V SR2

Busbar V(I/O) = 3.3V SR3

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

Silkscreen Bottom
Pads Bottom

				2001	Date	Name	Title	Hartmann Elektronik
				Author	28.02.	Wiedmann		CPCI 3HE RB 2Slot 32bit+
				Check	28.02.	Hamann		BUS726 Rev.BA
						DIN A4 M 1:1		
				HARTMANN ELEKTRONIK			Number	Sheet
				MOTORSTRASSE 43				of
Rev	Description	Date	Name	D-70499 STUTTGART			Device: HE-C33RB02---4	File: BUS726BA

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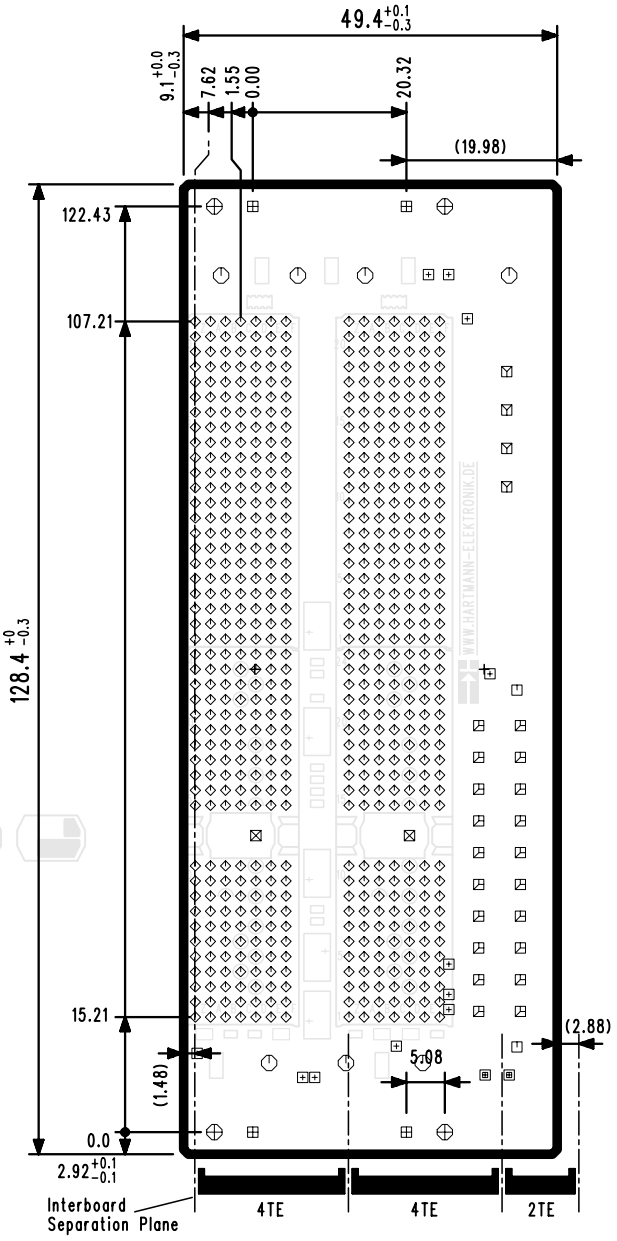

Hartmann Elektronik
CPCI 3HE RB 2Slot 32bit+
BUS726 Rev.BA

				2001	Date	Name	Title: Hartmann Elektronik
				Author	28.02.	Wiedmann	CPCI 3HE RB 2Slot 32bit+
				Check	28.02.	Hamann	BUS726 Rev.BA
						DIN A4 M 1:1	
Rev	Description	Date	Name	HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number / Sheet / of
							Device: HE-C33RB02---4 File: BUS726BA

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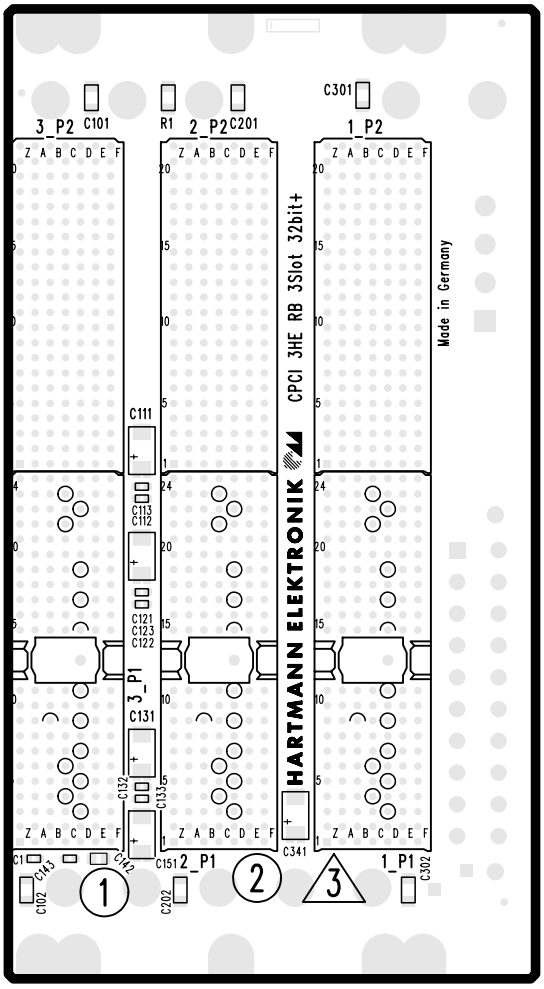
Coding Key	
V(I/O)	
+3.3V	+5V
Cadmium Yellow	Brilliant Blue



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

Silkscreen Top
Pads Top

Rev	Description	Date	Name

	2006	Date	Name
Author		29.06.	Wiedmann
Check		29.06.	Wiedmann
			DIN A4
			M 1:1

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

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

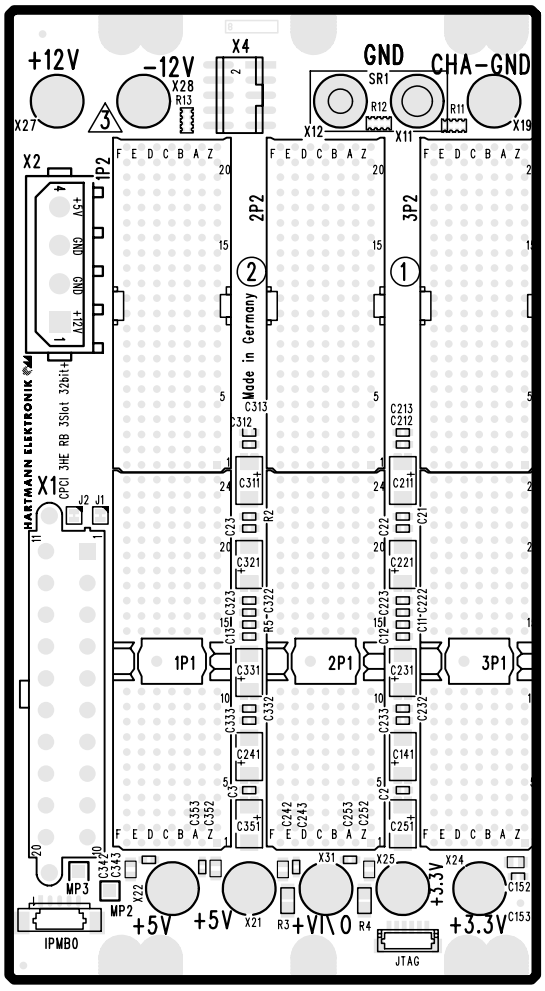
Number

Sheet of

Device: HE-C33RB03---4 File: BUS725BB

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)

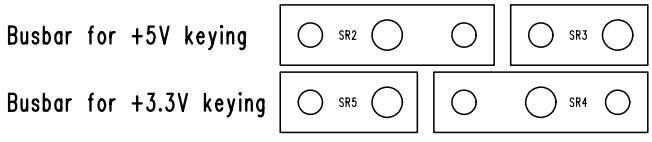


IPMB0
Pin Assignment

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



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

Silkscreen Bottom
Pads Bottom

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

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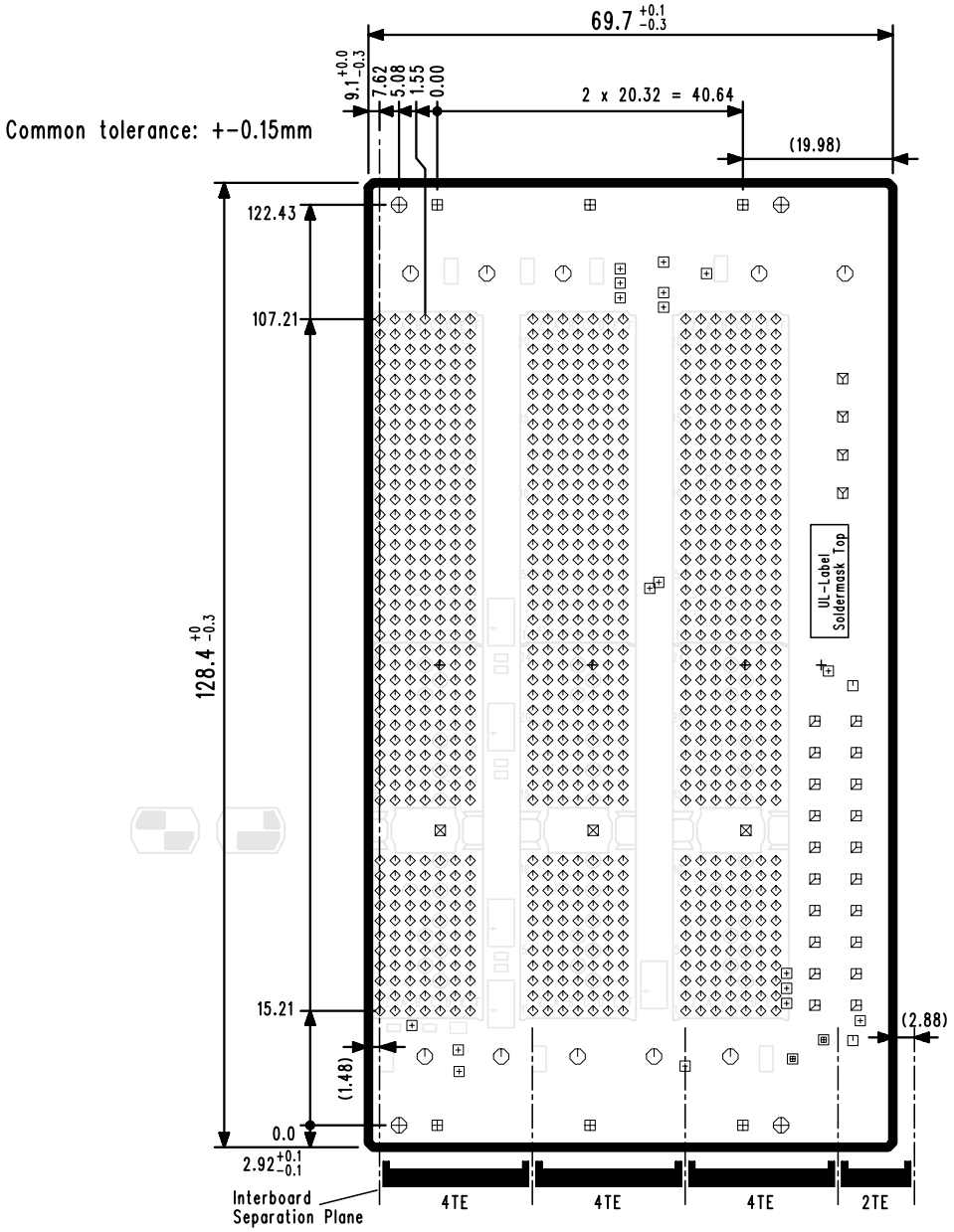

Hartmann Elektronik
CPCI 3HE RB 3Slot 32bit+
BUS725 Rev.BB

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

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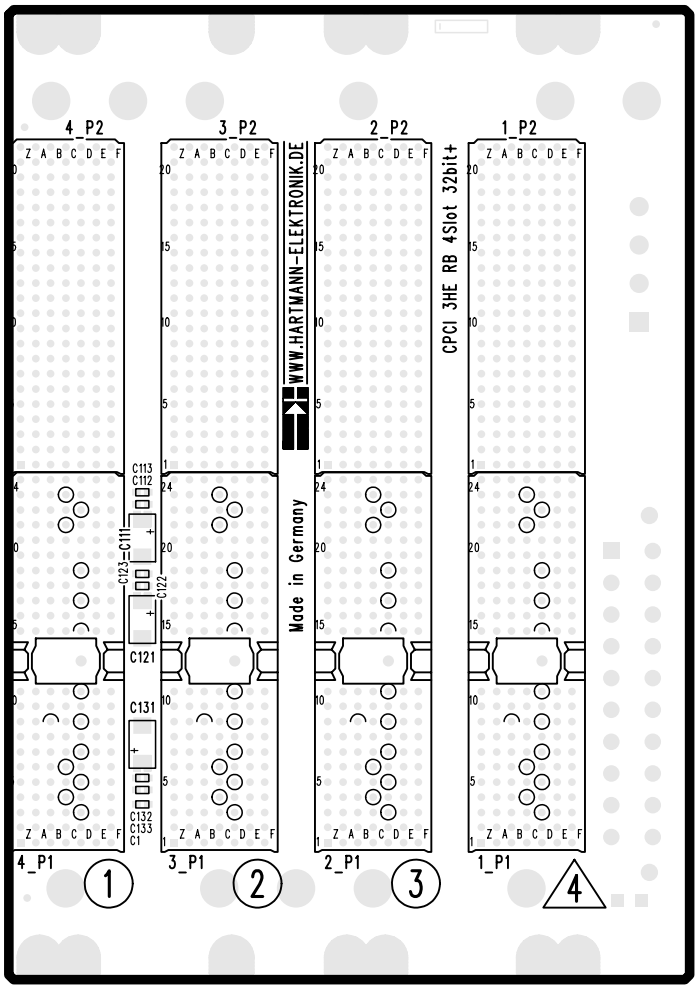
Coding Key	
V(I/O)	
+3.3V	+5V
Cadmium Yellow	Brilliant Blue



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

Silkscreen Top
Pads Top

Rev	Description	Date	Name

	Date	Name
2001		
Author	08.03.	Wiedmann
Check	08.03.	Hamann

DIN A4
M 1:1

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

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

Number

Sheet
of

Device: HE-C33RA04---4 File: BUS724BA

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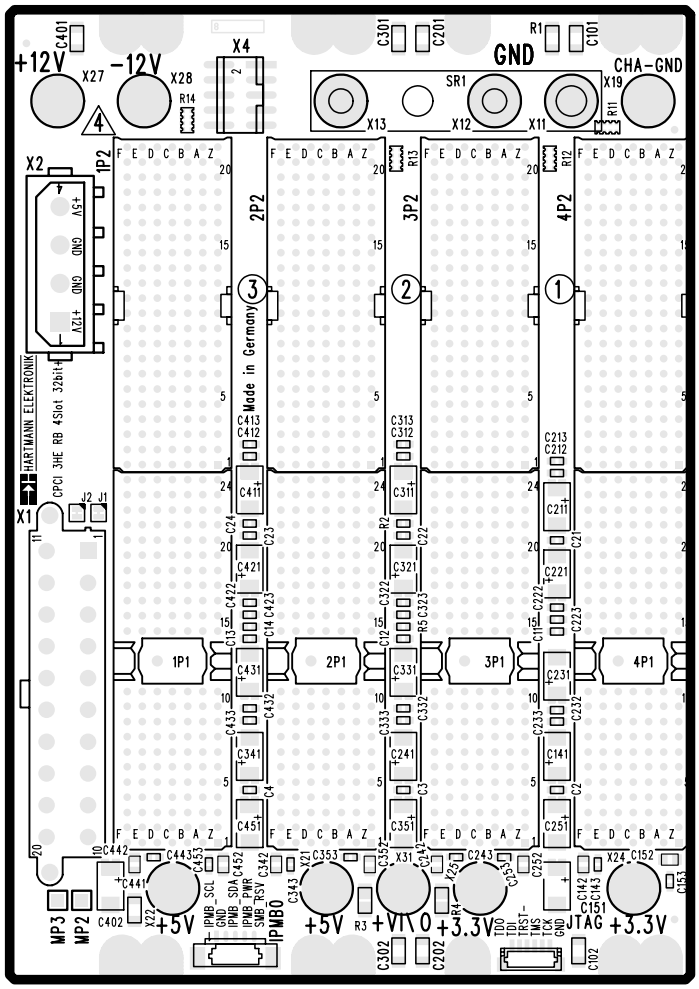


Busbar for +5V keying

Busbar for +3.3V keying

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

Silkscreen Bottom
Pads Bottom

Rev	Description	Date	Name

	Date	Name
2001		
Author	08.03.	Wiedmann
Check	08.03.	Hamann

DIN A4
M 1:1

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

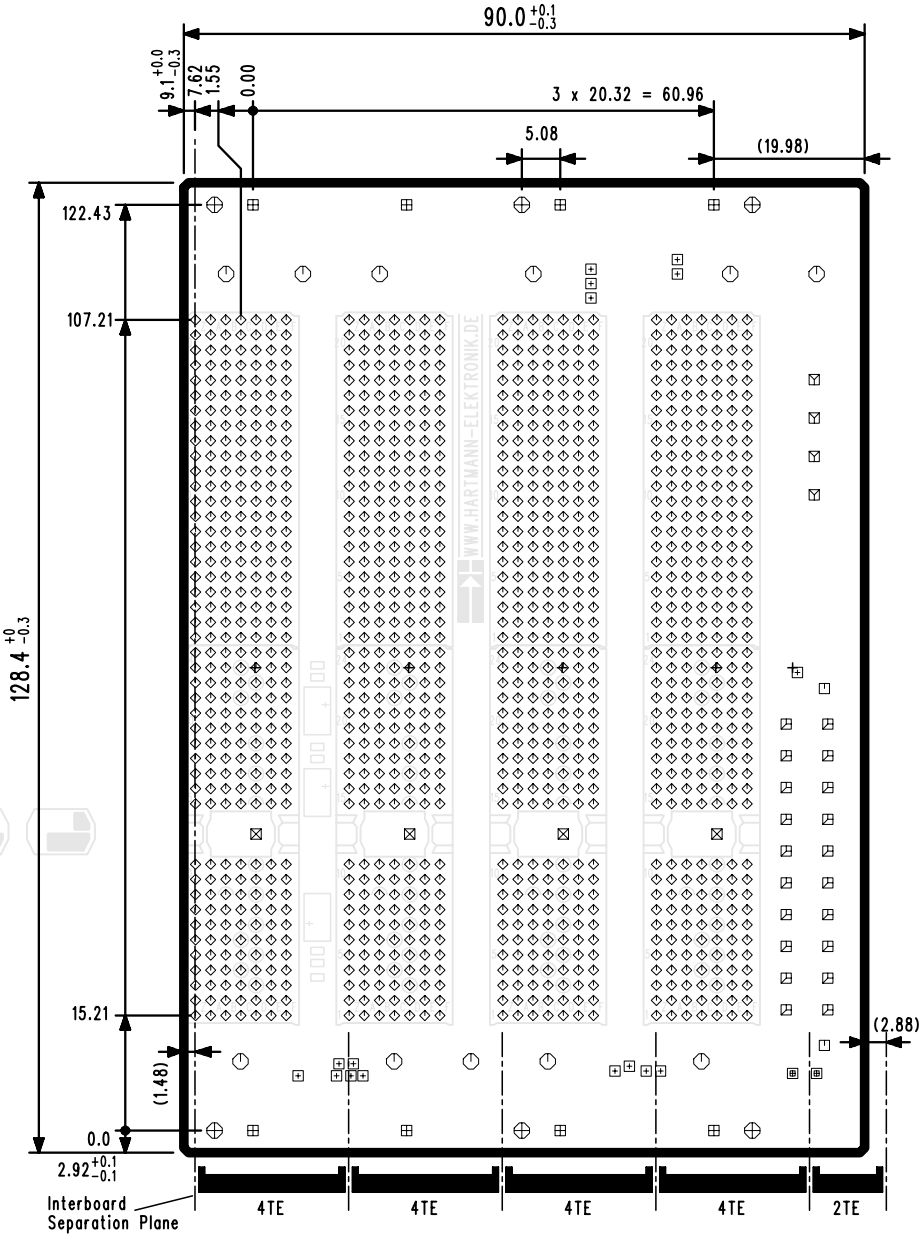
Title: Hartmann Elektronik
CPCI 3HE RB 4Slot 32bit+
BUS724 Rev.BA

Number

Sheet

of

Device: HE-C33RA04---4 File: BUS724BA



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

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

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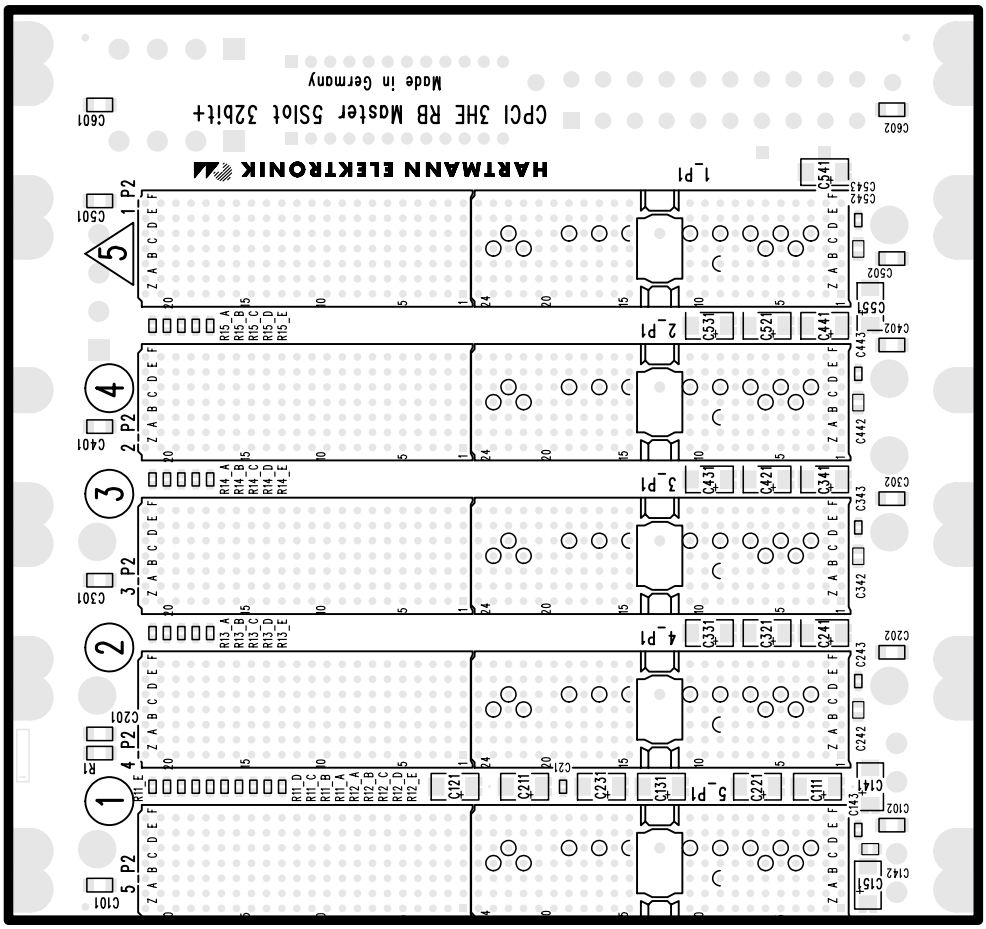
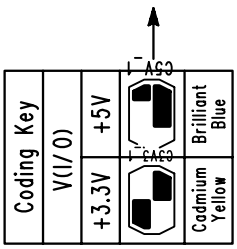
TOP VIEW



Pads B-Seite
Beschriftungsdruck B-Seite



Hartmann Elektronik
CPCI 3HE RB Master 5Slot 32bit+
BUS658
Rev.BA

				2003	Date	Name
				Author	03.03.	Keko
				Check	03.03.	Keko
						DIN A4
						M 1:1

Title: Hartmann Elektronik
CPCI 3HE RB Master 5Slot 32bit+
BUS658 Rev.BA

Rev	Description	Date	Name

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Number | Sheet | of

Device: HE-C33RBM54--4 | File: BUS658BA

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Without geographic addressing on request

BOTTOM VIEW

Floppy-Connector (X2) on request

Shrouds
1P1 – 3P1
on request

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

Busbar V(I/O) = 5V

Pads L-Seite
Beschriftungsdruck L-Seite

Hartmann Elektronik
CPCI 3HE RB Master 5Slot 32bit+
BUS658
Rev.BA

Rev	Description	Date	Name

	2003	
Author	03.03.	Keko
Check	03.03.	Keko

DIN A4
M 1:1

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Title: Hartmann Elektronik
CPCI 3HE RB Master 5Slot 32bit+
BUS658
Rev.BA

Number

Device: HE-C33RBM54--4 File: BUS658BA

Sheet of

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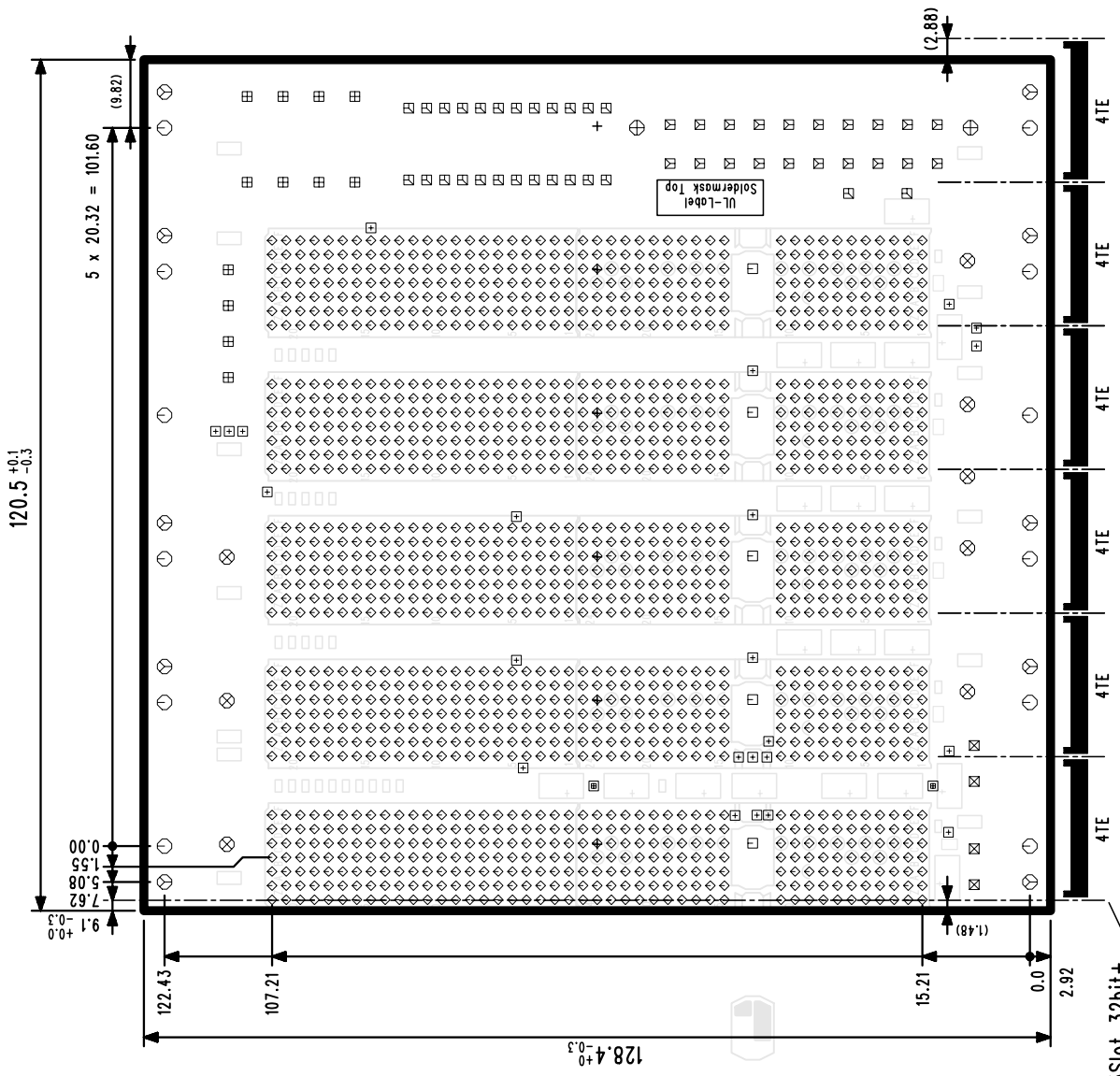

				2003	Date	Name
				Author	03.03.	Keko
				Check	03.03.	Keko
				DIN A4		
				M 1:1		

Title: **Hartmann Elektronik**
CPCI 3HE RB Master 5Slot 32bit+
BUS658 Rev.BA

Rev	Description	Date	Name

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Number | Sheet | of

Device: HE-C33RBM54--4 | File: BUS658BA

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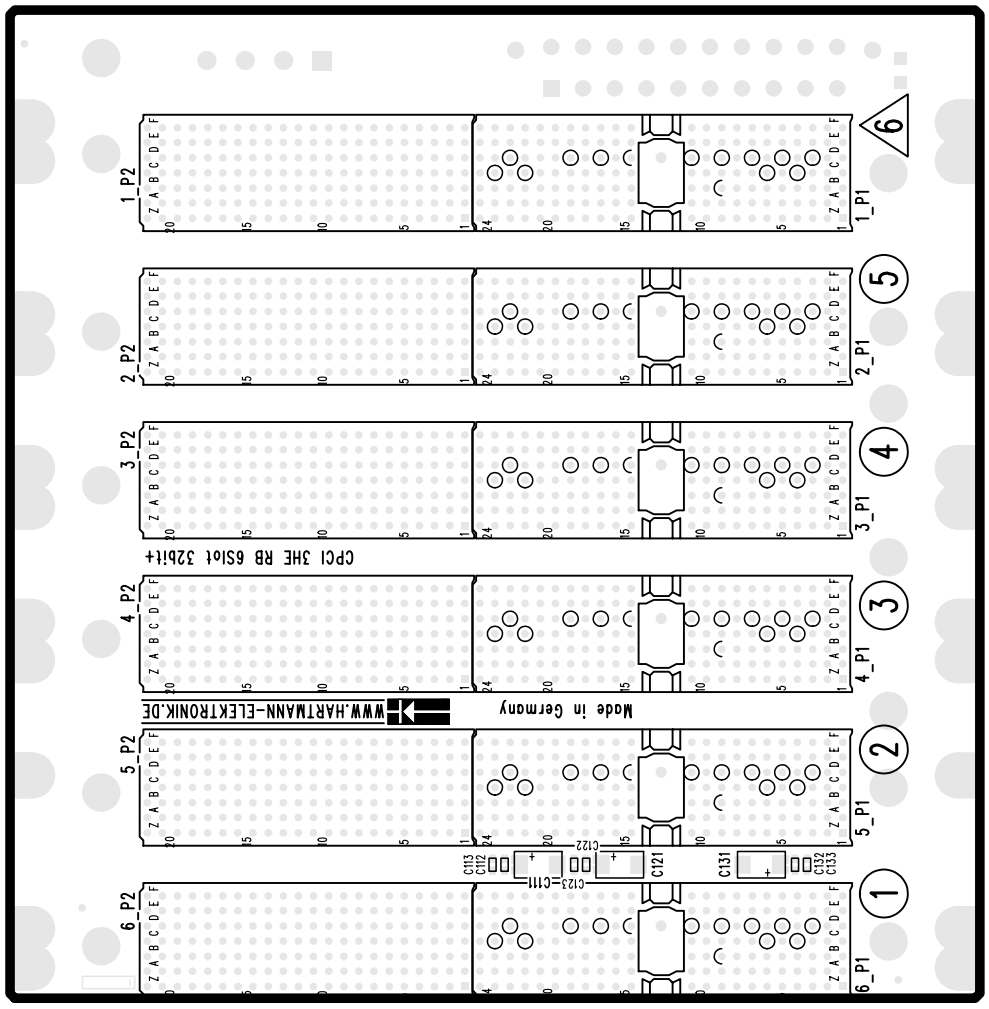

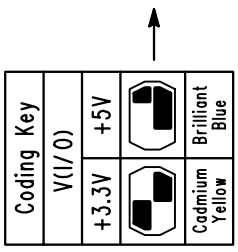

Silkscreen Top
Pads Top

Hartmann Elektronik
CPCI 3HE RB 6Slot 32bit+
BUS722 Rev.BA

				2001	Date	Name
				Author	13.03.	Wiedmann
				Check	13.03.	Hamann
						DIN A4
						M 1:1
Rev	Description	Date	Name			

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Title: Hartmann Elektronik
CPCI 3HE RB 6Slot 32bit+
BUS722 Rev.BA

Number | Sheet | of

Device: HE-C33RB06--14 | File: BUS722BA

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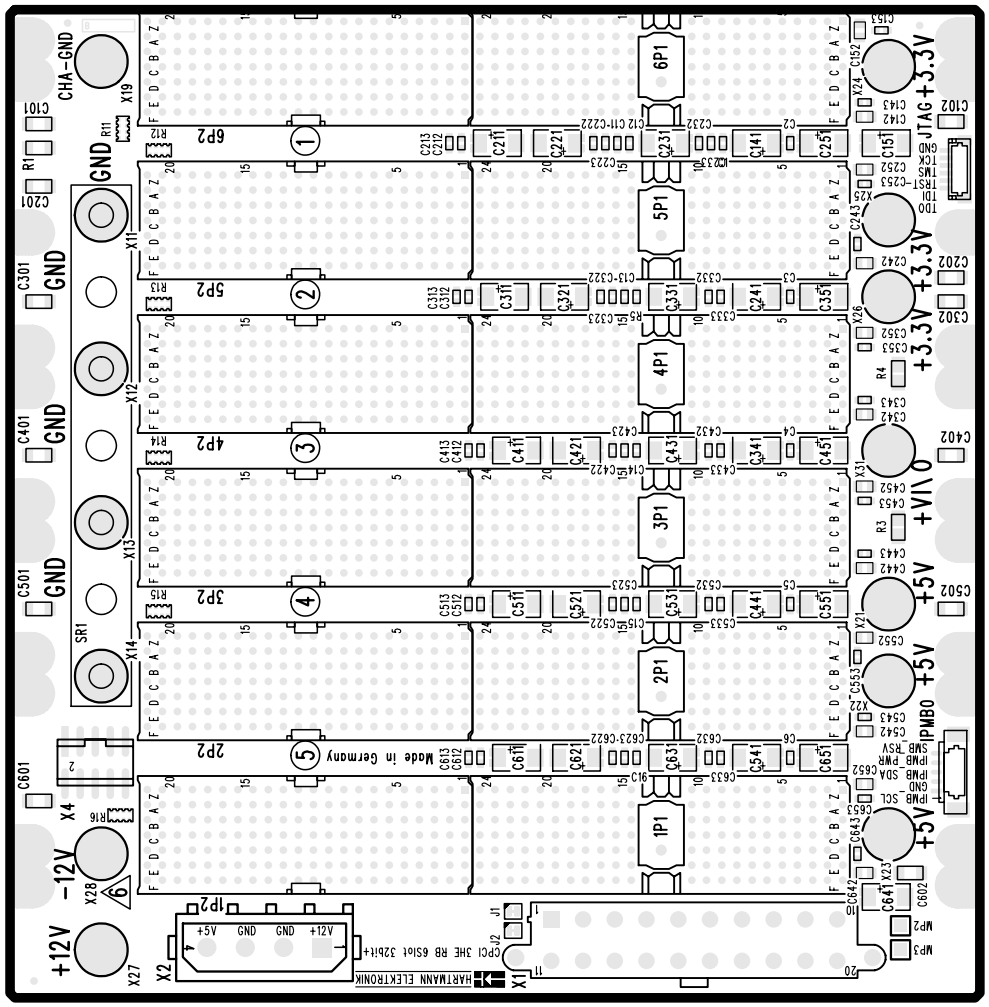
Hartmann Elektronik
CPCI 3HE RB 6Slot 32bit+
BUS722 Rev.BA

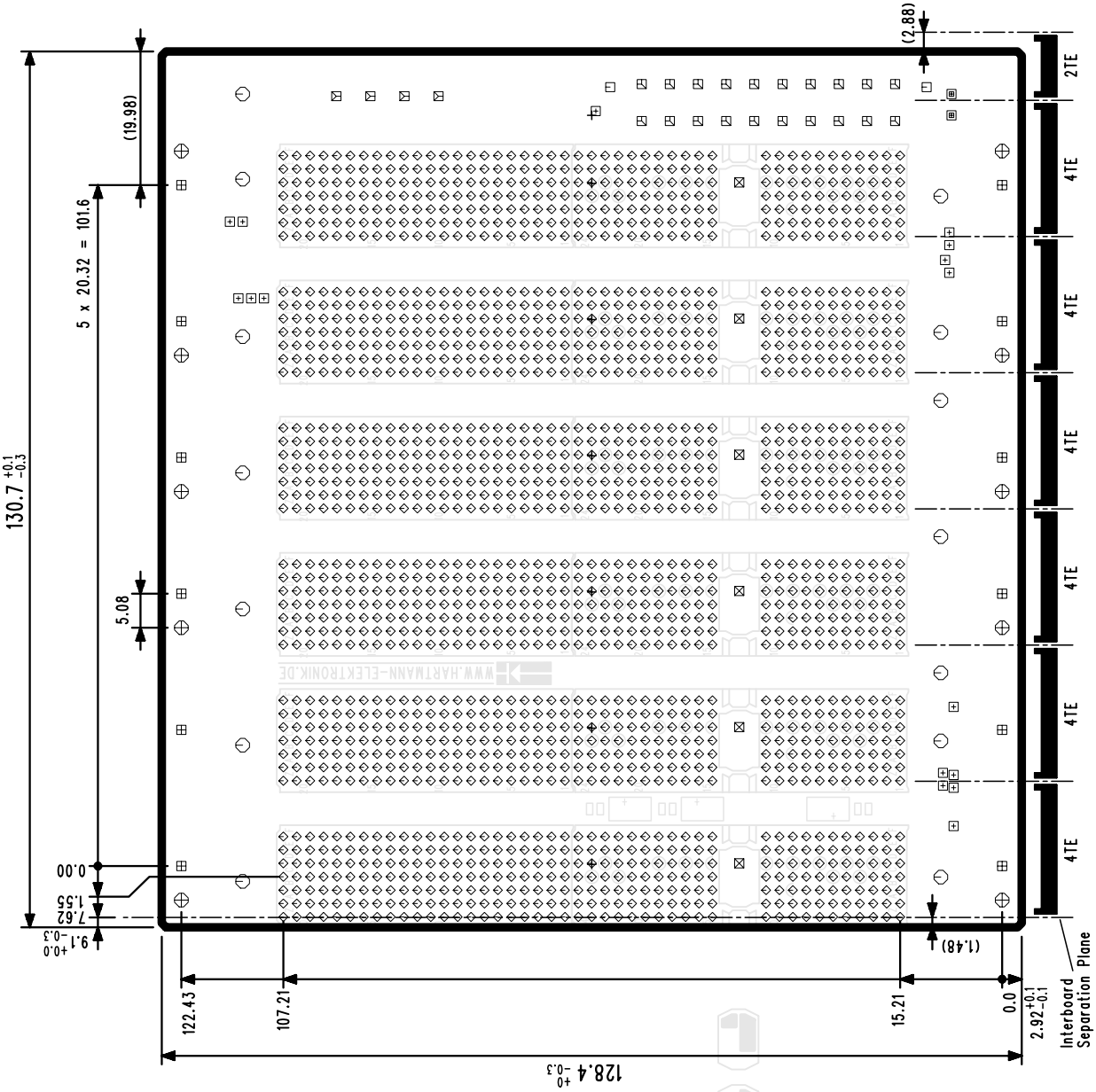
Pads Bottom Silkscreen Bottom



Busbar for +5V keying

Busbar for +3.3V keying

				2001	Date	Name	Title: Hartmann Elektronik
				Author	13.03.	Wiedmann	CPCI 3HE RB 6Slot 32bit+
				Check	13.03.	Hamann	BUS722 Rev.BA
						DIN A4 M 1:1	
				HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number / Sheet / of
Rev	Description	Date	Name				Device: HE-C33RB06--14 File: BUS722BA



Hartmann Elektronik
CPCI 3HE RB 6Slot 32bit+
BUS722 Rev.BA

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	2001	Date	Name
	Author	13.03.	Wiedmann
	Check	13.03.	Hamann
			DIN A4
			M 1:1

Title: Hartmann Elektronik
CPCI 3HE RB 6Slot 32bit+
BUS722 Rev.BA

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Number | Sheet | of

Rev	Description	Date	Name

Device: HE-C33RB06--14 | File: BUS722BA

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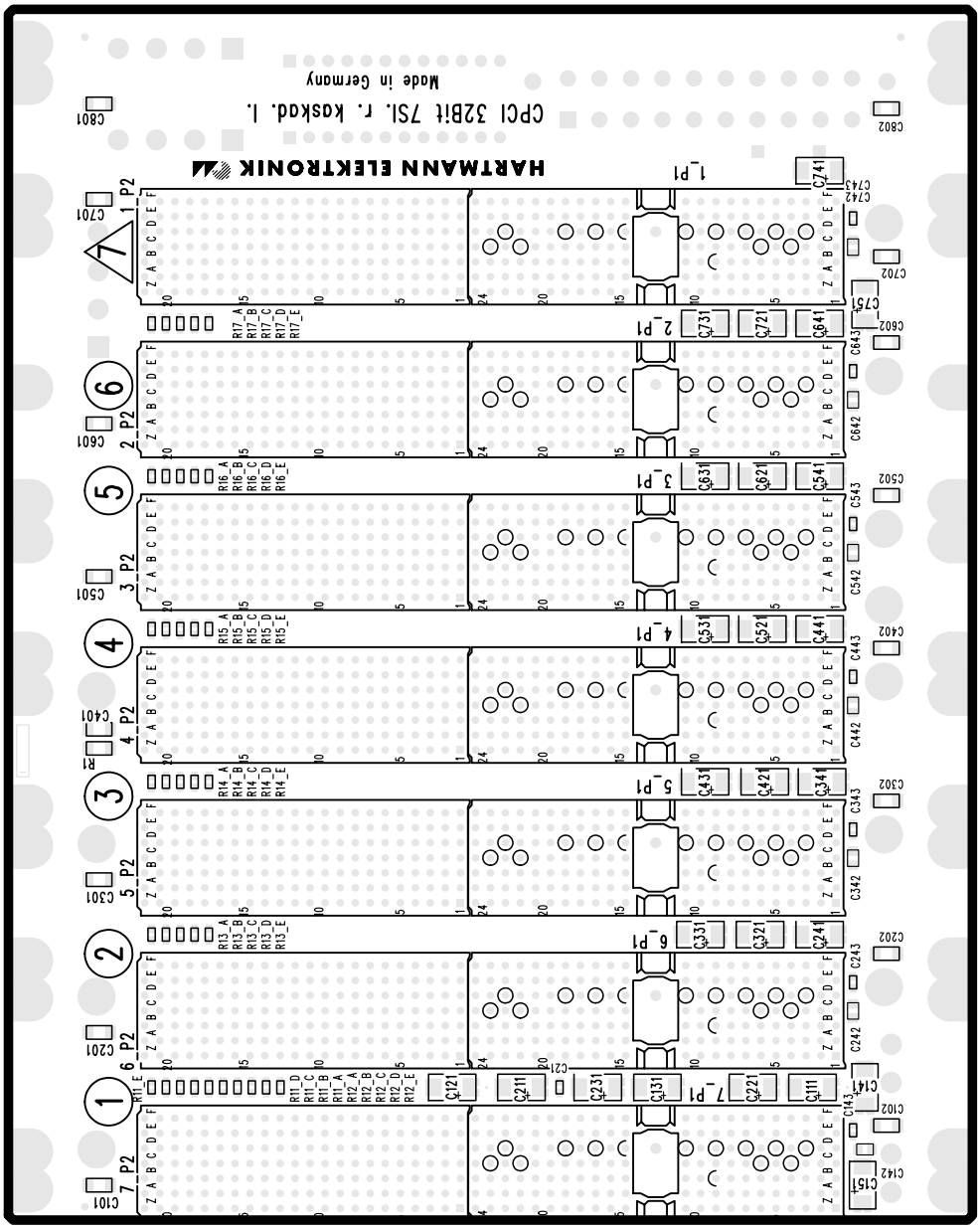
TOP VIEW



Pads B-Seite
Beschriftungsdruck B-Seite

Coding Key			
V(I/O)	+5V	C5V_1	Brilliant Blue
	+3.3V	C3V3_1	Cadmium Yellow

Hartmann Elektronik
CPCI 32Bit 7Sl. r. kaskad. l.
BUS650
Rev.BA

2007	Date	Name	
Author	30.01.	Wiedmann	
Check	30.01.	Wiedmann	
		DIN A4	
		M 1:1	

Title: Hartmann Elektronik
CPCI 32Bit 7Sl. r. kaskad. l.
BUS650 Rev.BA

Rev	Description	Date	Name
a			

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Number | Sheet | of

Device: | File: BUS650BA

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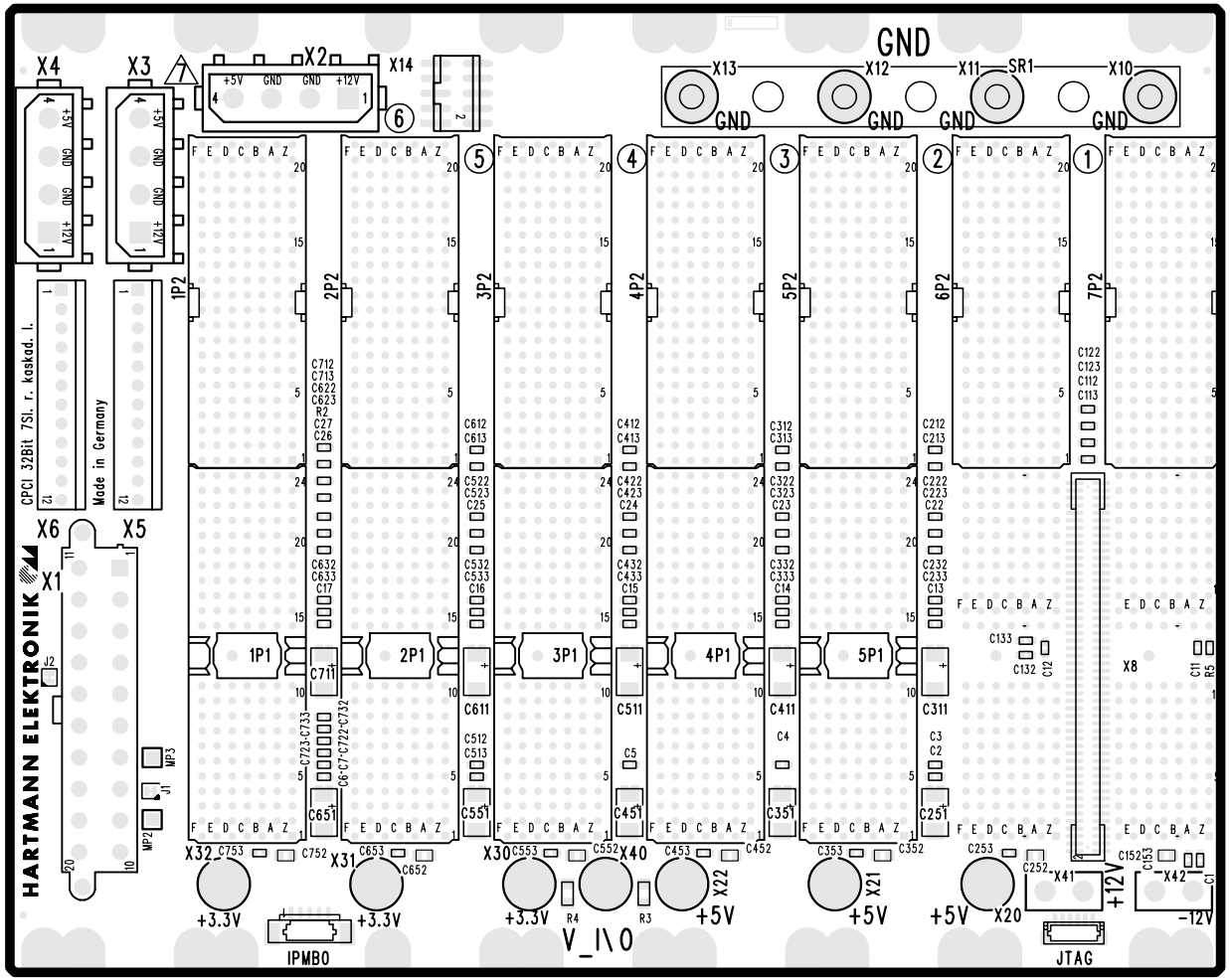
Without geographic addressing on request

Floppy-Connector (X2) 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



IPMB0
Pin Assignment

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

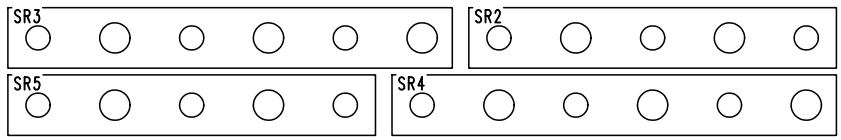
JTAG
Pin Assignment

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

Shrouds
1P1 - 3P1
on request

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

Busbar V(I/O) = 5V



Pads L-Seite
Beschriftungsdruck L-Seite

Hartmann Elektronik
CPCI 32Bit 7Sl. r. kaskad. I.
BUS650
Rev.BA

Rev	Description	Date	Name
a			

Author	30.01.	Wiedmann	2007
Check	30.01.	Wiedmann	

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

DIN A4
M 1:1

Title: Hartmann Elektronik
CPCI 32Bit 7Sl. r. kaskad. I.
BUS650
Rev.BA

Number

Device:

File: BUS650BA

Sheet of

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Hartmann Elektronik
CPCI 32Bit 7SI. r. kaskad. I.
BUS650
Rev.BA

Rev	Description	Date	Name
a			

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

	2007		
Author	30.01.	Date	Wiedmann
Check	30.01.	Name	Wiedmann

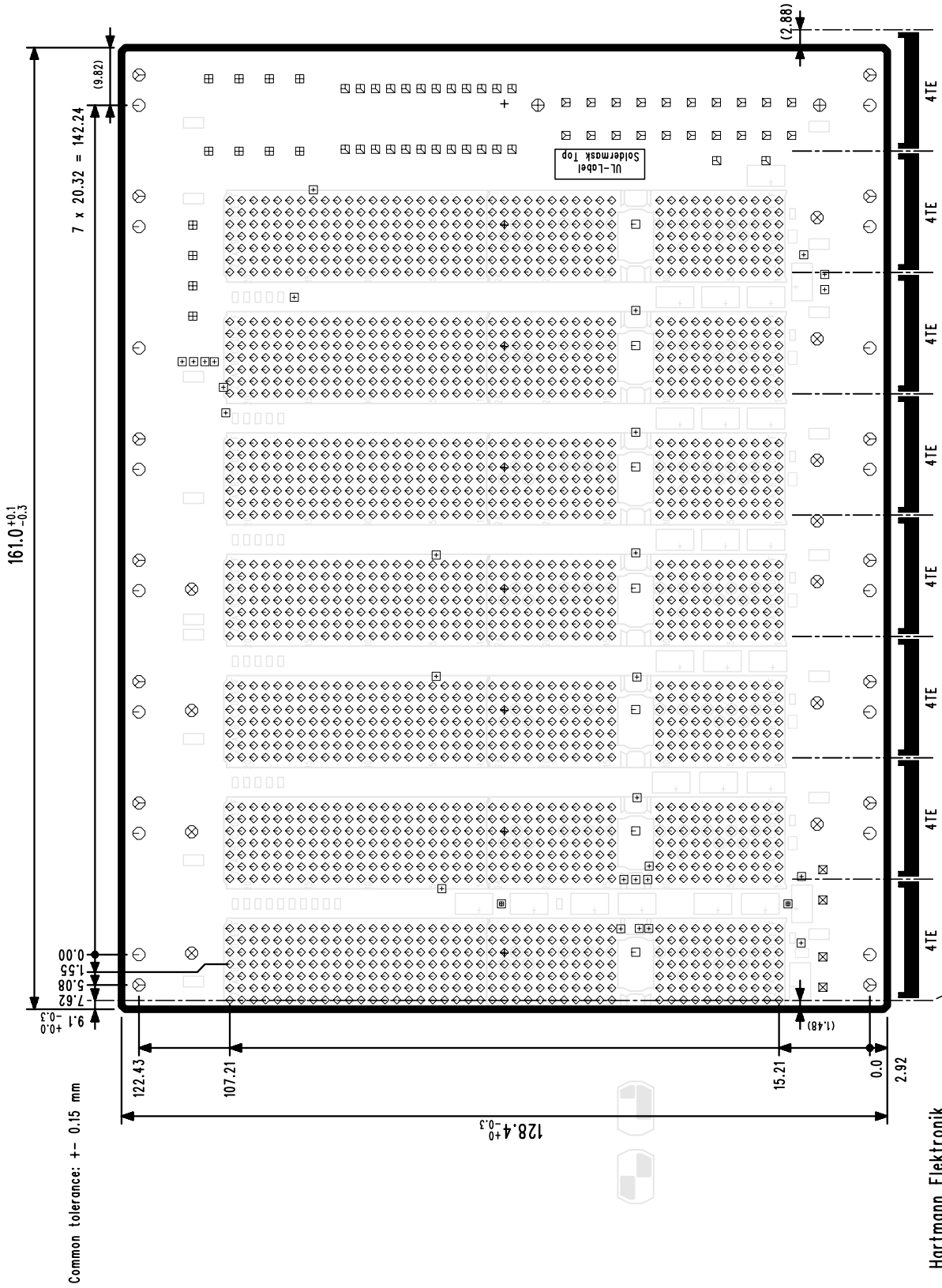
DIN A4
M 1:1

Title: Hartmann Elektronik
CPCI 32Bit 7SI. r. kaskad. I.
BUS650 Rev.BA

Number:

Device: | File: BUS650BA

Sheet of



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				2007	Date	Name
				Author	30.01.	Wiedmann
				Check	30.01.	Wiedmann
						DIN A4
						M 1:1
a						
Rev	Description	Date	Name			

Title: Hartmann Elektronik
CPCI 32Bit 7Sl. r. kaskad. I.
BUS650 Rev.BA

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Number | Sheet | of

Device: | File: BUS650BA

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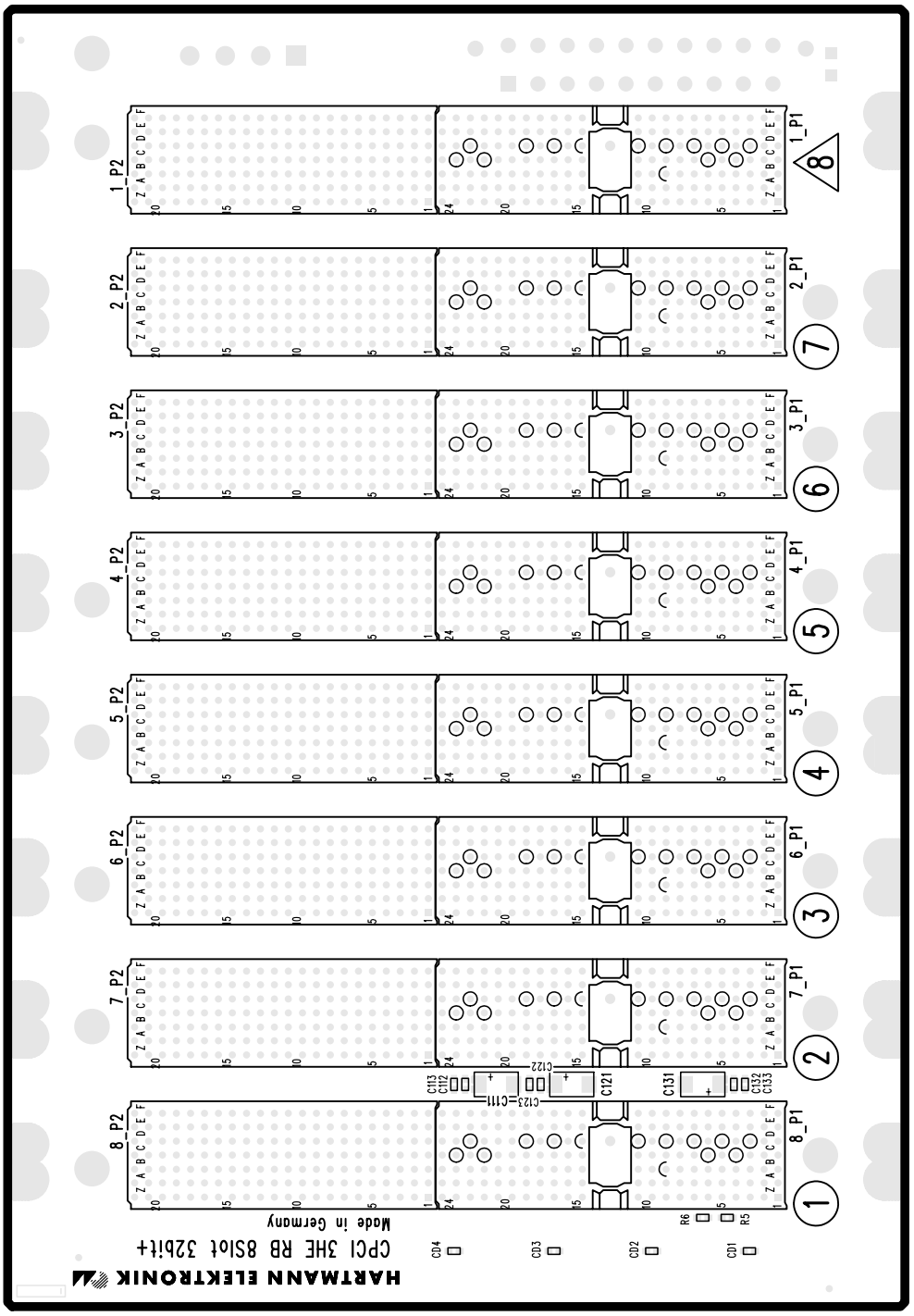

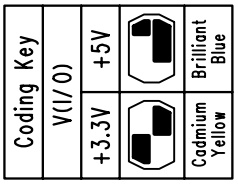

Hartmann Elektronik
CPCI 3HE RB 8Slot 32bit+
BUS720 Rev.BB

				2006	Date	Name
				Author	05.12.	Wiedmann
				Check	05.12.	Wiedmann
						DIN A4
						M 1:1

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

Rev	Description	Date	Name

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Number | Sheet | of

Device: HE-C33RB08--14 | File: BUS720BB

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Rev	Description	Date	Name

	Name	Date
Author	Wiedmann	05.12.2006
Check	Wiedmann	05.12.

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

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

Number:

Device: HE-C33RB08--14 File: BUS720BB

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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

Hartmann Elektronik
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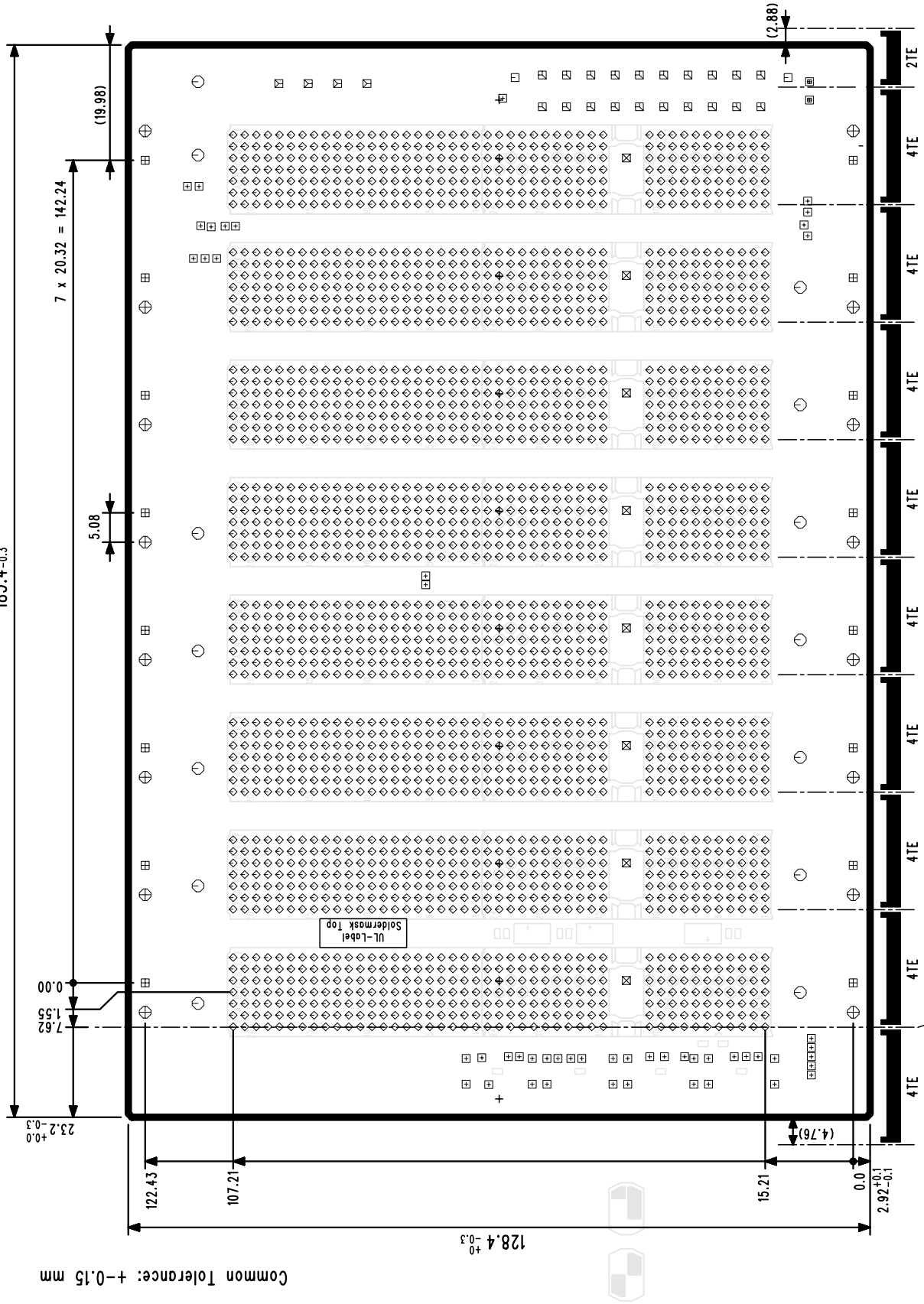
BUS720 Rev.BB



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Title: **Hartmann Elektronik**
CPCI 3HE RB 8Slot 32bit+
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