

# TEBT0808 TRM

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## Overview

The Trenz Electronic TEBT0808 is a test fixture for module TE0808(REV02, REV03) and TE0803(REV01) series.

Refer to <http://trenz.org/tebt0808-info> for the current online version of this manual and other available documentation.

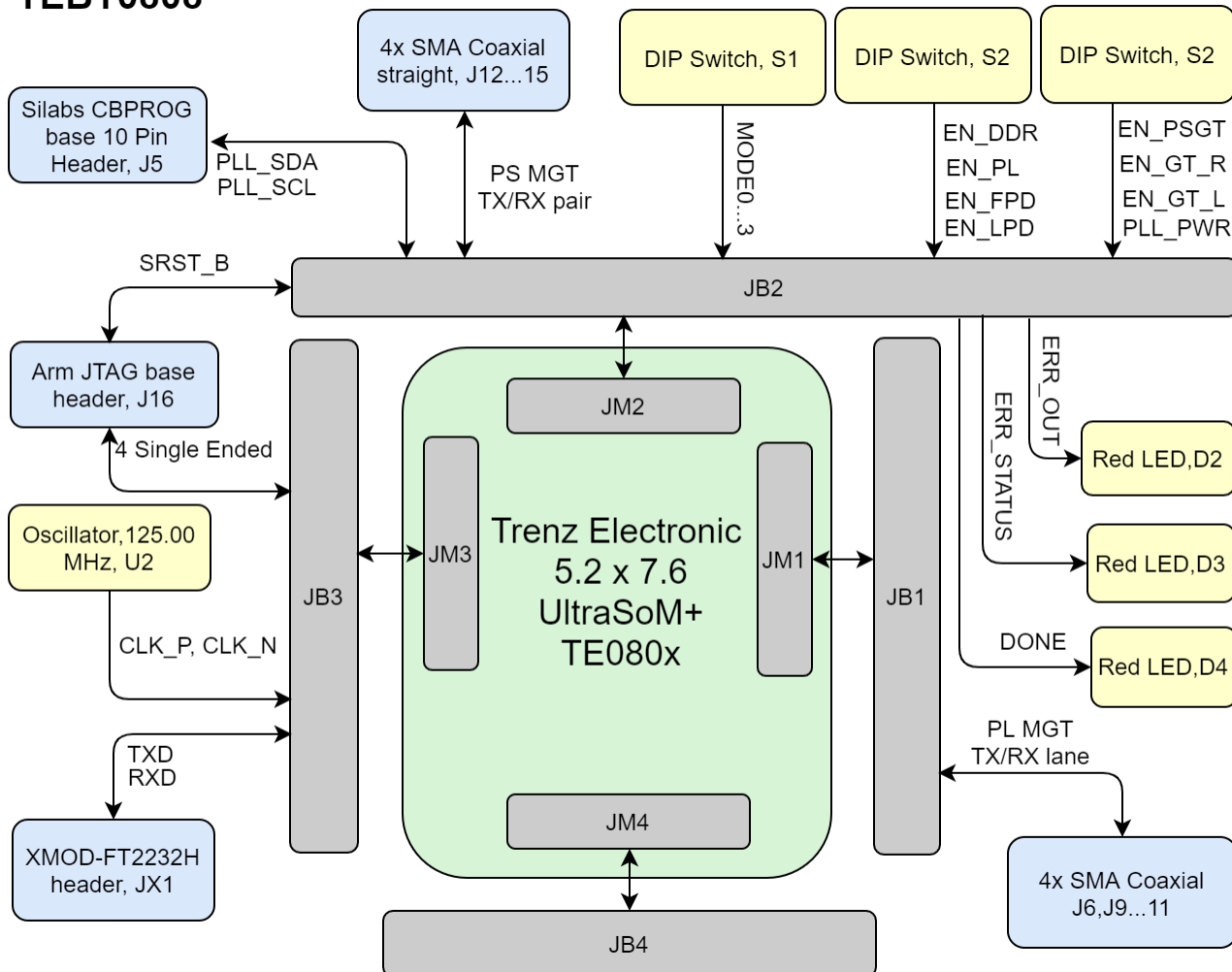
## Key Features

- **Modules**
  - TE0808, TE0803

- **On Board**
  - Done/Error/Status LEDs
  - MEMS Oscillator 125.00 MHz
  - Boot Mode DIP-Switch
  - 2x DIP-Switches to control TE080x power domains
- **Interface**
  - Pin Header for TE0790 JTAG/UART Adapter
  - ARM JTAG header
  - Pin Header for I<sup>2</sup>C
  - Board to Board (B2B) Connectors
  - One PL GT with 4x SMA Connectors
  - One PS GT with 4x SMA Connectors
  - One pre-assembled TE0790 XMOD FTDI JTAG adapter
- **Power:**
  - 3.3 V (Nominal Supply Voltage)
- **Dimension:** 90mm x 90mm

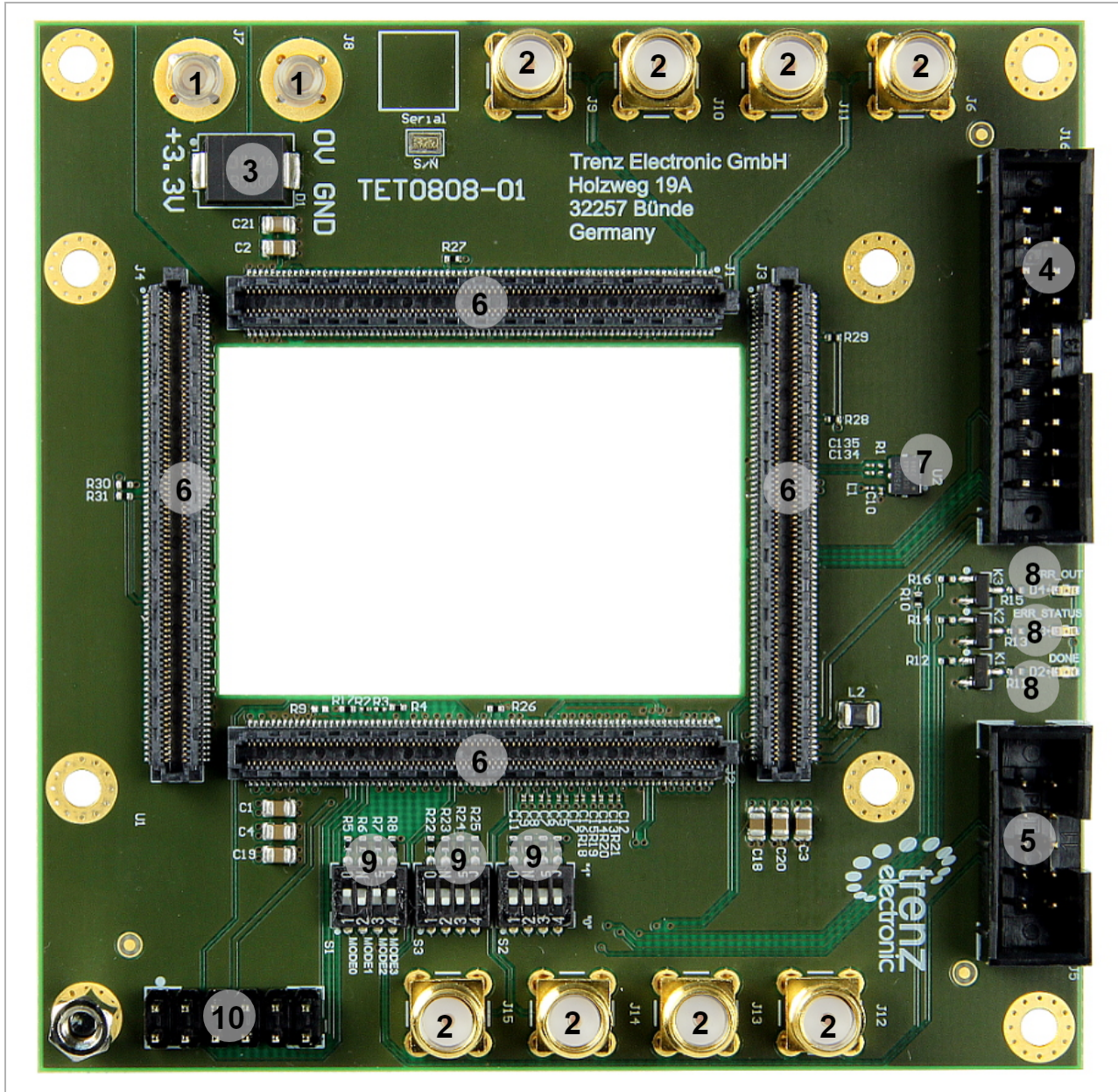
## Block Diagram

### TEBT0808



TEBT0808 Block Diagram

## Main Components



**TEBT0808 Main Components**

1. Uninsulated Power Jack. J7-J8
2. SMA Coaxial straight. J6- J9...15
3. Surface Mount Schottky Barrier Rectifier. D1
4. ARM PJTAG Pin Header J16
5. I2C Pin Header, J5
6. Board to Board Connectors. J1...4
7. MEMS Oscillator, U2
8. On-Board LEDs, D2...4

9. DIP-Switch, S1...3
10. XMOD header, JX1

## Initial Delivery State

Storage device name	Content	Notes
-	-	-

Initial delivery state of programmable devices on the module

## Configuration Signals

Boot mode can be set by DIP-Switch S1.

M3	M2	M1	M0	Bootmode	Bootmode	Notes
ON	ON	ON	ON	0b0000	PS Main JTAG (TE0790 USB JTAG)	DIPs are inverted
ON	ON	OFF	ON	0b0010	SPI Flash (dual parallel, 4bit x 2, 32bit Addressing)	DIPs are inverted
OFF	ON	ON	ON	0b1000	PJTAG(MIO29:26)	DIPs are inverted

**Boot Process.**

Signal	B2B	Note
PLL_RST	J2-89	
SRST_B	J2-96	Connected to PJTAG0_SRST - J16

**Reset Process.**

## Signals, Interfaces and Pins

### Board to Board (B2B) I/Os

TEBT0808 has four B2B Connectors and each connector has 160 pins. Number of I/O signals and Interfaces connected to the B2B connectors is as following table:

B2B Connector	Interfaces	Number of I/O	Notes
---------------	------------	---------------	-------

J1	User I/O	46 Single Ended, 23 Differential	IOs are Loop-Back
		16 Single Ended, 8 Differential	IOs are Loop-Back
		16 Single Ended, 8 Differential	IOs are Loop-Back
		16 Single Ended, 8 Differential	PL_1V8
		4 Single Ended	
J2	User IO	28 Single Ended, 14 Differential	IOs are Loop-Back
		6 Single Ended, 3 Differential	IOs are Loop-Back
	Boot Mode	4 Single Ended	MODE0...3
	Control Signals	25 Single Ended	PLL_SEL0, PLL_SEL1, PLL_RST, EN_GTR, EN_PL, PLL_LOLN, EN_PSGT, ERR_STATUS, ERR_OUT, SRST_B, INIT_B, PROG_B, EN_FPD, EN_LPD, DONE, EN_PLL_PWR, PLL_FINC, PG_PLL_1V8, LP_GOOD, PG_DDR, PG_PL, PG_FPD, PG_PSGT, PG_GT_R, PG_GT_L
	JTAG Interface	7 Single Ended	TCK, TDI, TMS, TDO, MR, Rxd, Txd
	I <sup>2</sup> C	2 Single Ended	PLL_SCL, PLL_SDA
J3	User IO	24 Single Ended, 12 Differential	Connected to Module FPGA, Bank 48
		24 Single Ended, 12 Differential	Connected to Module FPGA, Bank 47
	Clock	6 Single Ended, 3 Differential	CLK228, CLK229, CLK230
	PJTAG Interface	4 Single Ended	PJTAG0_TCK, PJTAG0_TDI, PJTAG0_TMS, PJTAG0_TDO,
	MIO	45 Single Ended	MIO13..77
	UART	2 Single Ended	TXD, RXD
	Power Control Signals	4 Single Ended	PS_1V8, SI_PLL_1V8, VCCO_48, VCCO_47, PLL_3V3

J4	User I/O	48 Single Ended, 24 Differential  48 Single Ended, 24 Differential  4 Single Ended  4 Single Ended	IOs are Loop-Back  IOs are Loop-Back  B64_T0...3  B65_T0...3
	Power pins	4 Single Ended	VCCO_64, VCCO65

**General PL I/O to B2B connectors information**

## SMA Coaxial Connectors

TEBT0808 is equipped with 8 SMD Coaxial Connectors.

Designator	Schematic	B2B Connector	Notes
J6	B230_TX3_P	J1	
J9	B230_RX3_N	J1	
J10	B230_RX3_P	J1	
J11	B230_TX3_P	J1	
J12	B505_TX0_N	J2	
J13	B5050TX0_P	J2	
J14	B505_RX0_N	J2	
J15	B505_RX0_P	J2	

**SMD Coaxial Connectors**

## XMOD JTAG

JTAG access to the TEBT080X is available through B2B connector JB2 using XMOD adapter [TE0790](#).

JTAG Signal	B2B Connector	Notes
TMS	J2- 126	
TDI	J2- 122	
TDO	J2- 124	
TCK	J2- 120	

**JTAG Pins Connection**

The voltages 3.3V (VCC) and VIO (variable SC CPLD I/O-voltage) on TE0790 can be configured by the DIP-switch S2 which must be set as following.

DIP Switch,S2	Default	Description
1	ON	Update Mode JTAG access to SC CPLD only
2	OFF	Must be always in OFF state.

3	OFF	VIO is supplied from Module
4	OFF	3.3V is supplied by the carrier TEBT0808

#### Xmod Adapter DIP-Switch Setting Description

## PJTAG

PJTAG access to the TEBT0808 is available through B2B connector JB3.

JTAG Signal	B2B Connector	Notes
PJTAG_TMS	J3- 94	
PJTAG_TDI	J3- 90	
PJTAG_TDO	J3- 92	
PJTAG_TCK	J3- 88	
PJTAG_SRST	J2- 96	Connected to SRST_B

#### PJTAG Pins Connection

## Pin header

The I2C signals can be accessed through pin header J5.

Signals	B2B Connector	Pin Header	Notes
PLL_SCL	J2- 90	J5- 3	
PLL_SDA	J2- 92	J5- 7	

#### I2C Connections

## Test Points

Test Point	Signals	B2B Connector	Notes
TP 1	DDR_1V2	J2-135	
TP 2	PG_PSGT	J2-82	
TP 3	ERR_STATUS	J2-86	
TP 4	PLL_FDEC	J2-94	
TP 5	EN_LPD	J2-108	
TP 6	EN_DDR	J2-112	
TP 7	PG_PL	J2-104	
TP 8	PG_PLL_1V8	J2-80	
TP 9	N_PSGT	J2-84	
TP 10	ERR_OUT	J2-88	
TP 11	EN_FPD	J2-102	
TP 12	LP_GOOD	J2-106	
TP 13	PG_FPD	J2-110	

TP 14	PG_DDR	J2-114	
TP 15	EN_PLL_PWR	J2-77	
TP 16	PLL_FINC	J2-81	
TP 17	PG_GT_R	J2-91	
TP 18	EN_GT_R	J2-95	
TP 19	EN_PL	J2-101	
TP 20	EN_GT_L	J2-79	
TP 21	PLL_SEL0	J2-93	
TP 22	PG_GT_L	J2-97	
TP 23	INIT_B	J2-98	
TP 24	IN1_P	J2-4	
TP 25	PLL_SEL1	J2-87	
TP 26	PLL_LOLN	J2-85	
TP 27	PLL_RST	J2-89	
TP 28	DX_P	J2-119	
TP 29	DX_N	J2-121	
TP 30	IN1_N	J2-6	
TP 31	B505_CLK0_P	J2-10	
TP 32	B505_CLK0_N	J2-12	
TP 33	B505_CLK1_P	J2-16	
TP 34	B505_CLK1_N	J2-18	
TP 35	B128_CLK1_P	J2-22	
TP 36	B128_CLK1_N	J2-24	
TP 37	CLK0_N	J2-1	
TP 38	CLK0_P	J2-3	
TP 39	CLK8_P	J2-7	
TP 40	CLK8_N	J2-9	
TP 41	CLK7_P	J2-13	
TP 42	CLK7_N	J2-15	
TP 43	IN2_P	J3-66	
TP 44	IN2_N	J3-68	
TP 45	B230_CLK1_N	J3-59	
TP 46	B230_CLK1_P	J3-61	
TP 47	B229_CLK0_N	J3-65	
TP 48	B229_CLK0_P	J3-67	
TP 49	PLL_3V3	J3-152	
TP 50	GND	J3-155	
TP 51	PL_1V8	J1-121	
TP 52	PS_1V8	J3-147	
TP 53	SI_PLL_1V8	J3-151	



TP 54	PROG_B	J2-100	
TP 55...56	GND	-	

#### Test Points Information

## On-board Peripherals

Chip/Interface	Designator	Notes
<a href="#">DIP Switch</a>	S1...3	
<a href="#">LEDs</a>	D2...4	Red LEDs
<a href="#">Oscillator</a>	U2	125.00 MHz

#### On Board Peripherals

## DIP Switch

There are three DIP Switches, S1, S2, S3.

The Boot Mode can be set through DIP Switch S1, refer to [BootMode](#) table.

DIP Switch S1	Signals	B2B	Notes
S1A	MODE0	J2-109	
S1B	MODE1	J2-107	
S1C	MODE2	J2-105	
S1D	MODE3	J2-103	

#### DIP Switch S1

Control signals must be set using DIP Switch S2, S3.

DIP Switch S2	Signals	B2B	Notes
S2A	EN_PSGT	J2-84	Position OFF enables power rail
S2B	EN_GT_R	J2-95	Position OFF enables power rail
S2C	EN_GT_L	J2-97	Position OFF enables power rail
S2D	EN_PLL_PWR	J2-77	Position OFF enables power rail, connected to PG_PL

#### DIP Switch S2

DIP Switch S3	Signals	B2B	S3 switch	Notes
S3A	EN_DDR	J2-112	S3A	Position OFF enables power rail
S3B	EN_LPD	J2-108	S3B	Position OFF enables power rail
S3C	EN_PL	J2-101	S3C	Position OFF enables power rail
S3D	EN_FPD	J2-102	S3D	Position OFF enables power rail

#### DIP Switch S3

## LEDs

Designator	Color	Connected to	Active Level	Note
D2	Red	DONE	Active High	Non User LED
D3	Red	ERR_STATUS	Active High	Non User LED
D4	Red	ERR_OUT	Active High	Non User LED

#### On-board LEDs

## Clock Sources

Designator	Description	Frequency	Note
U2	MEMS Oscillator	125.00 MHz	

#### Oscillators

## Power and Power-On Sequence

### Power Supply

2,0mm MC LB2	Note
J7	3.3V direct modules power supply
J8	GND

#### Power Consumption

### Power Consumption

Minimum current depends mainly on design and cooling solution. Use Xilinx Power Estimator and/or Your Vivado Project to estimate min current. Minimum of 3A are recommended for basic functionality.

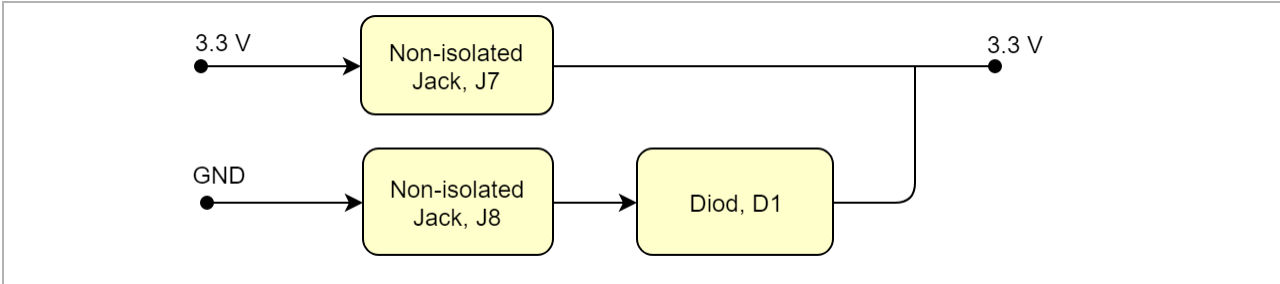
Power Input Pin	Typical Current
3.3V	TBD*

#### Power Consumption

\* TBD - To Be Determined

### Power Distribution Dependencies

Input power sourced directly the module, Only one Diode D1 is used for inverse polarity protection.



Power Distribution

## Power Rails

Power Rail Name	B2B J1 Pins	B2B J2 Pins	B2B J3 Pins	Directions	Note
PL_DCIN	151, 153, 155, 157, 159	-	-	Output	-
DCDCIN	-	154, 156, 158, 160, 153, 155, 157, 159	-	Output	-
LP_DCDC	-	138, 140, 142, 144	-	Output	-
PS_BATT	-	125	-	Output	-
GT_DCDC	-	-	157, 158, 159, 160	Output	-
PLL_3V3	-	-	152	Output	-
SI_PLL_1V8	-	-	151	Input	-
PS_1V8	-	99	147, 148	Input	-
PL_1V8	91, 121	-	-	Input	-
DDR_1V2	-	135	-	Input	-

Module power rails.

## Board to Board Connectors

5.2 x 7.6 cm UltraSoM+ modules use four Samtec Razor Beam LP Terminal Strip ([ST5](#)) on the bottom side.

- 4x REF-192552-02 (160-pins)
  - ST5 Mates with SS5

5.2 x 7.6 cm UltraSoM+ carrier use four Samtec Razor Beam LP Socket Strip ([SS5](#)) on the top side.

- 4x REF192552-01 (160-pins)
  - SS5 Mates with ST5

### Features

- Board-to-Board Connector 160-pins, 80 contacts per row
- Ultrafine .0197" (0.50 mm) pitch
- Narrow body design saves space on board
- Lead style -03.5
- Samtec 28+ Gbps Solution
- Mates with: ST5

- Insulator Material: Liquid Crystal Polymer, schwarz
- Operating Temperature Range: -55°C bis +125°C
- Lead-Free Solderable: Yes
- RoHS Konform: Yes

## Connector Stacking height

When using the standard type on baseboard and module, the mating height is 5 mm.

Other mating heights are possible by using connectors with a different height:

Order number	REF number	Samtec Number	Type	Contribution to stacking height	Comment
27219	REF192552-01	SS5-80-3.50-L-D-K-TR	Baseboard connector	3.5mm	Standard connector used on carrier
27018	REF-189545-02	SS5-80-3.00-L-D-K-TR	Baseboard connector	3 mm	Assembly option on request
27220	REF-192552-02	ST5-80-1.50-L-D-P-TR	Module connector	1.5 mm	Standard connector used on modules
27017	REF-189545-01	ST5-80-1.00-L-D-P-TR	Module connector	1 mm	Assembly option on request

### Connectors.

The module can be manufactured using other connectors upon request.

## Current Rating

Current rating of Samtec Razor Beam LP Terminal/Socket Strip ST5/SS5 B2B connectors is 1.5 A per pin (1 pin powered per row).

## Connector Speed Ratings

The connector speed rating depends on the stacking height:

Stacking height	Speed rating
4 mm, Single-Ended	13GHz/26Gbps
4 mm, Differential	13.5GHz/27Gbps
5 mm, Single-Ended	13.5GHz/27Gbps
5 mm, Differential	20GHz/40 Gbps

### Speed rating.

The SS5/ST5 series board-to-board spacing is currently available in 4mm (0.157"), 4.5mm (0.177") and 5mm (0.197") stack heights.

The data in the reports is applicable only to the 4mm and 5mm board-to-board mated connector stack height.

## Manufacturer Documentation

File	Modified
PDF File hsc-report-sma_st5-ss5-04mm_web.pdf	30 05, 2017 by Susanne Kunath
PDF File hsc-report-sma_st5-ss5-05mm_web.pdf	30 05, 2017 by Susanne Kunath
PDF File REF-192552-01.pdf	13 11, 2017 by John Hartfiel

PDF File REF-192552-02.pdf	13 11, 2017 by John Hartfiel
PDF File ss5.pdf	13 11, 2017 by John Hartfiel
PDF File ss5-st5.pdf	13 11, 2017 by John Hartfiel
PDF File ss5-xx-x.xx-x-d-k-tr-mkt.pdf	13 11, 2017 by John Hartfiel
PDF File st5.pdf	13 11, 2017 by John Hartfiel
PDF File st5-xx-x.xx-x-d-p-tr-mkt.pdf	13 11, 2017 by John Hartfiel

[Download All](#)

## Technical Specifications

### Absolute Maximum Ratings

Symbols	Min	Max	Unit	Note
VIN	-0.3	4	V	VIN is connected directly to module
Storage Temperatur	-40	+85	°C	See DIP Switch, CHS-04TA datasheet

**PS absolute maximum ratings**

### Recommended Operating Conditions

Operating temperature range depends also on customer design and cooling solution. Please contact us for options.

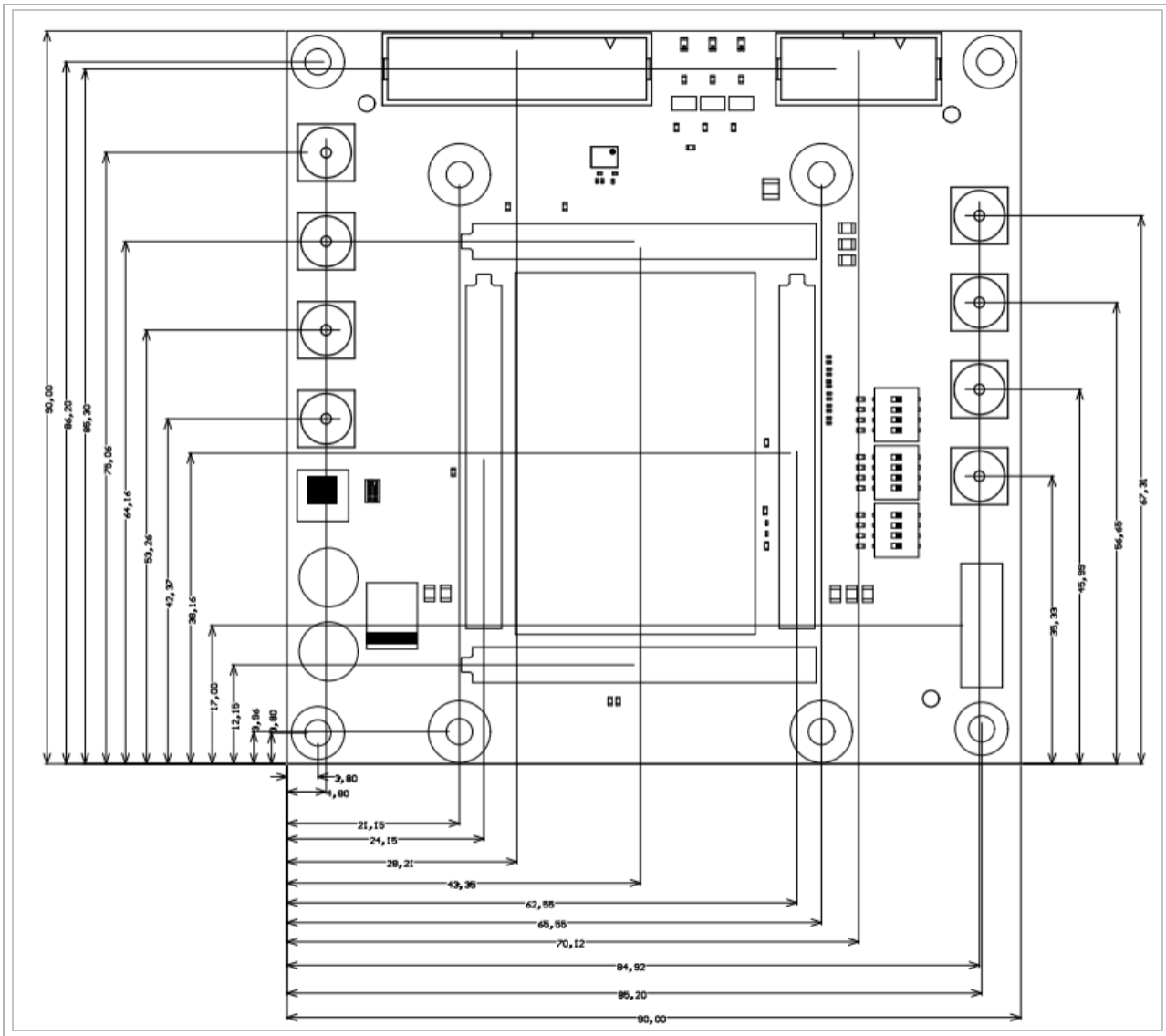
Symbols	Min	Max	Unit	Note
VIN	3,14	3.47	V	Check also TRM of the connected module
Operating Temperatur	-40	+85	°C	

**Recommended operating conditions.**

### Physical Dimensions

- Module size: 90 mm × 90 mm. Please download the assembly diagram for exact numbers.
- Mating height with standard connectors: 3.5 mm.

PCB thickness: 1.6 mm.



Physical Dimension

## Currently Offered Variants

[Trenz shop TEBT0808 overview page](#)

[English page](#)

[German page](#)

Trenz Electronic Shop Overview

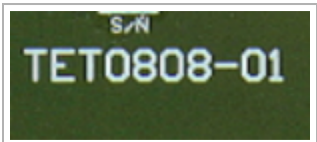
## Revision History

## Hardware Revision History

Date	Revision	Changes	Documentation Link
2016-05-30	01	Initial Release	<a href="#">REV01</a>

### Hardware Revision History

Hardware revision number can be found on the PCB board together with the module model number separated by the dash.



Board hardware revision number.

## Document Change History

Date	Revision	Contributor	Description
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2020-05-11	v.54	John Hartfiel	<ul style="list-style-type: none"> <li>add notes to DIP section</li> <li>Correction on configuration signal section</li> </ul>
2020-01-24	v.49	Pedram Babakhani	<ul style="list-style-type: none"> <li>Initial Release</li> </ul>



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Document change history.

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Please also note our data protection declaration at <https://www.trenz-electronic.de/en/Data-protection-Privacy>

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Trenz Electronic GmbH herewith declares that all its products are developed, manufactured and distributed RoHS compliant.

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Information for users within the European Union in accordance with Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003 on waste electrical and electronic equipment (WEEE).

Users of electrical and electronic equipment in private households are required not to dispose of waste electrical and electronic equipment as unsorted municipal waste and to collect such waste electrical and electronic equipment separately. By the 13 August 2005, Member States shall have ensured that systems are set up allowing final holders and distributors to return waste electrical and electronic equipment at least free of charge. Member States shall ensure the availability and accessibility of the necessary collection facilities. Separate collection is the precondition to ensure specific treatment and recycling of waste electrical and electronic equipment and is necessary to achieve the chosen level of protection of human health and the environment in the European Union. Consumers have to actively contribute to the success of such collection and the return of waste electrical and electronic equipment. Presence of hazardous substances in electrical and electronic equipment results in potential effects on the environment and human health. The symbol consisting of the crossed-out wheeled bin indicates separate collection for waste electrical and electronic equipment.

Trenz Electronic is registered under WEEE-Reg.-Nr. DE97922676.

Ambiguous method overloading for method `jdk.proxy279.$Proxy4022#hasContentLevelPermission`. Cannot resolve which method to invoke for `[null, class java.lang.String, class com.atlassian.confluence.pages.Page]` due to overlapping prototypes between: `[interface com.atlassian.confluence.user.ConfluenceUser, class java.lang.String, class com.atlassian.confluence.core.ContentEntityObject]` `[interface com.atlassian.user.User, class java.lang.String, class com.atlassian.confluence.core.ContentEntityObject]`