

TQC – Starterkit for



**S T K 8 X X L**

Hardware – Manual

**Hardware Manual for:**

STK8xxL Rev. 400

Starterkit STK8xxL can be used with following TQMinimoduls:

TQM823L	Rev. 1XX
	Rev. 2XX
	Rev. 3XX
TQM850L	Rev. 1XX
	Rev. 2XX
	Rev. 3XX
TQM855L	Rev. 1XX
	Rev. 2XX
	Rev. 3XX
TQM860L	Rev. 1XX
	Rev. 2XX
	Rev. 3XX

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## 1. Introduction

The Starterkit STK8xxL is the universal EVA-board for TQMinimoduls Typ TQM8xxL. The Starterkit can be used for following Minimoduls

TQM823L

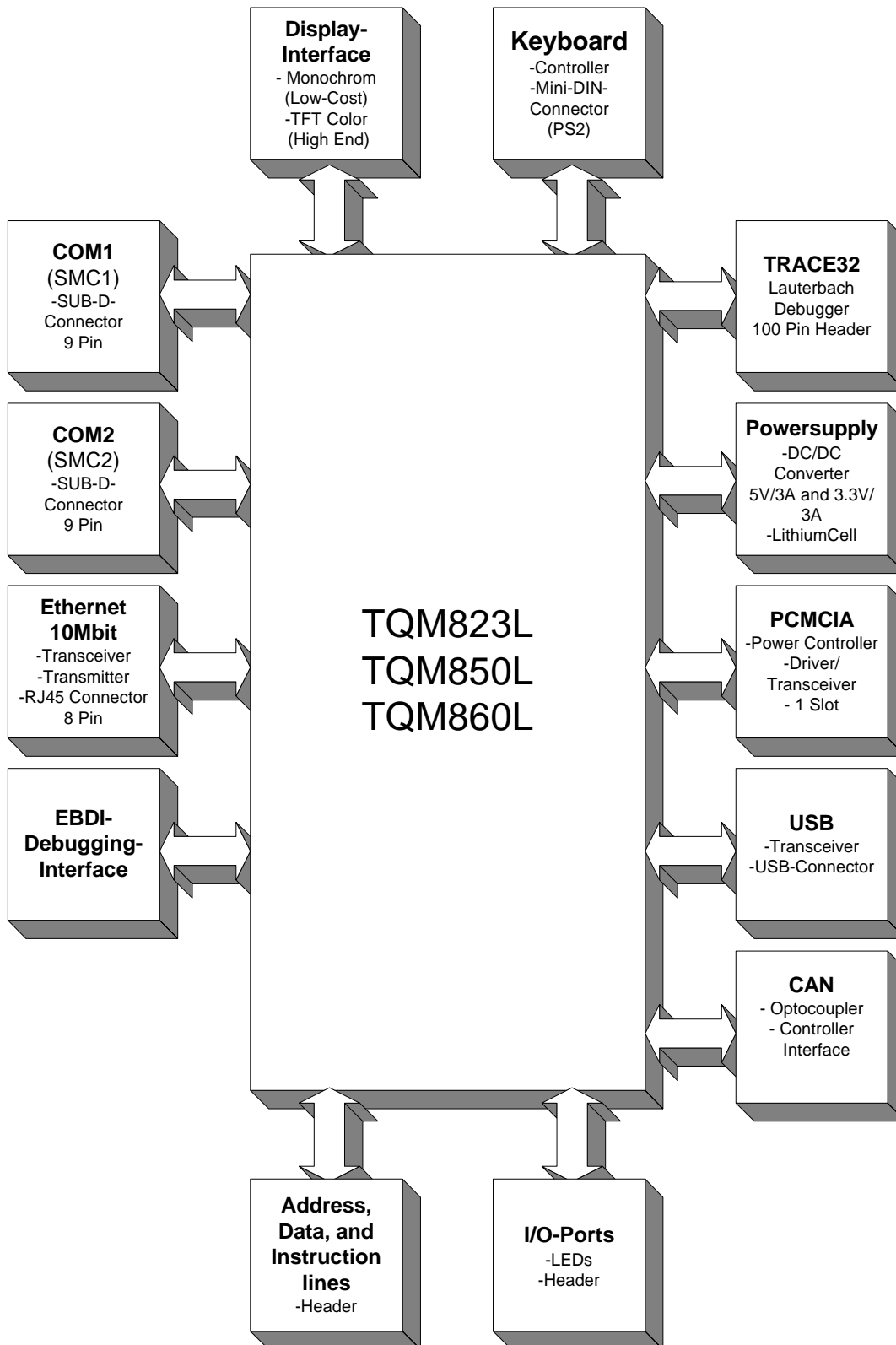
TQM850L

TQM855L

TQM860L

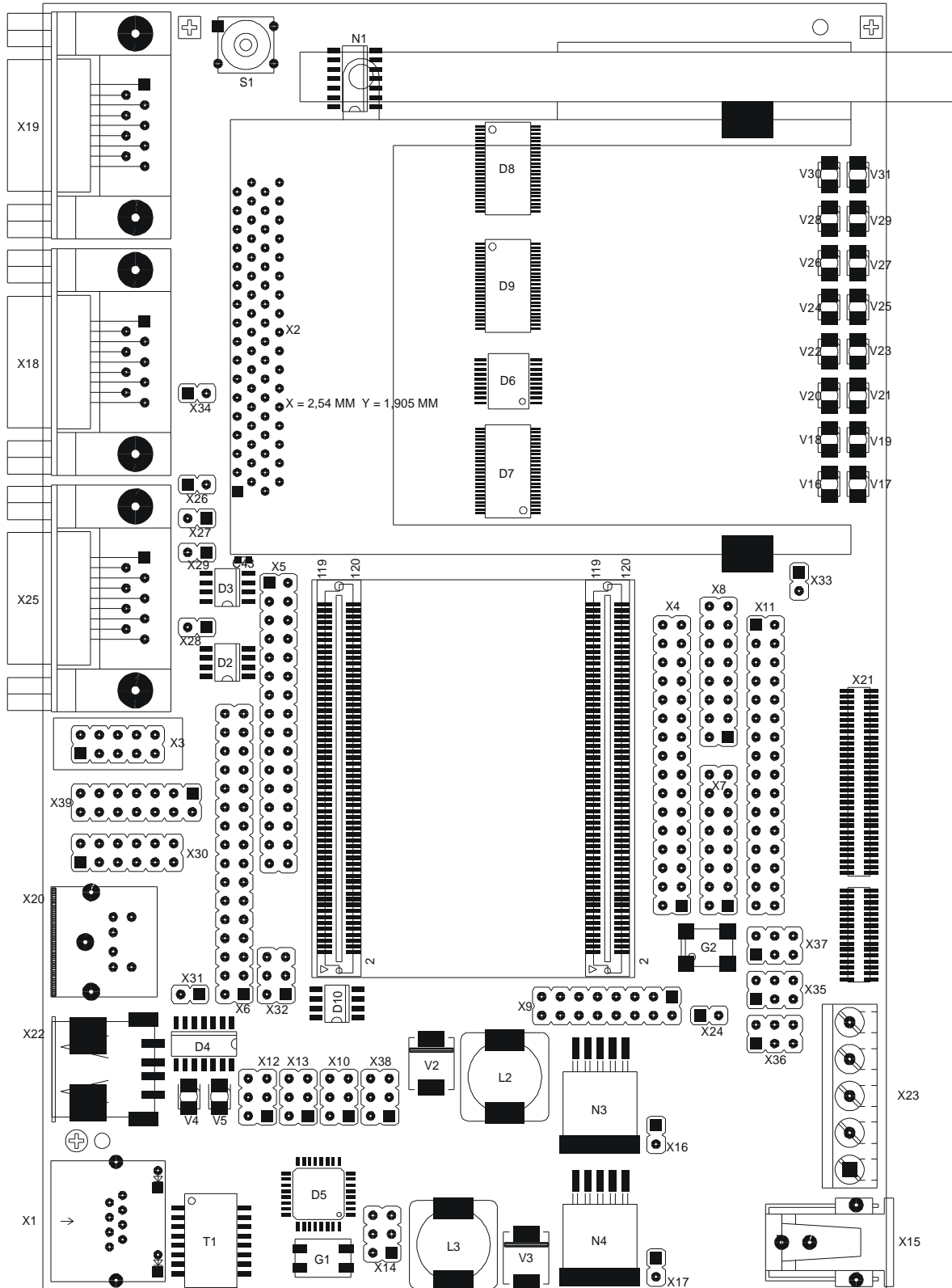
The Starterkit brings all port pins, address, data and control lines to 2.54 mm Header, to have access to all pins of the the PowerPC. Additional Interfaces are directly integrated in the EVA-board, to start the Evaluation immediately.

## 2. Block Diagram



### 3. Parts Location

#### 3.1 Parts Location STK8xxL Rev. 400



## 4. Functions

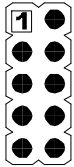
### 4.1 X1-Connector: Ethernet Interface

See Ethernet Specifications

### 4.2 X2-Connector: PCMCIA Interface

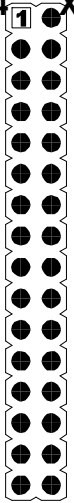
See PCMCIA Specifications

### 4.3 X3-Connector: JTAG / BDM



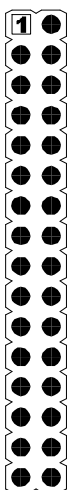
Pin-No	Function	Pin-No	Funktion
1	FRZ#	2	SRESET#
3	DGND	4	DSCK / TCK
5	DGND	6	FRZ#
7	HRESET#	8	DSDI / TDI
9	VCC3V3	10	DSDO / TDO

### 4.4 X4-Connector: Data Bus



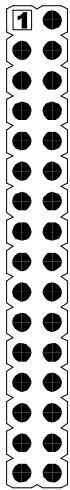
Pin-No	Function	Pin-No	Funktion
1	D0	2	D1
3	D2	4	D3
5	D4	6	D5
7	D6	8	D7
9	D8	10	D9
11	D10	12	D11
13	D12	14	D13
15	D14	16	D15
17	D16	18	D17
19	D18	20	D19
21	D20	22	D21
23	D22	24	D23
25	D24	26	D25
27	D26	28	D27
29	D28	30	D29
31	D30	32	D31

### 4.5 X5-Connector: Address Bus



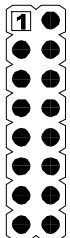
Pin-No	Function	Pin-No	Funktion
1	A0	2	A1
3	A2	4	A3
5	A4	6	A5
7	A6	8	A7
9	A8	10	A9
11	A10	12	A11
13	A12	14	A13
15	A14	16	A15
17	A16	18	A17
19	A18	20	A19
21	A20	22	A21
23	A22	24	A23
25	A24	26	A25
27	A26	28	A27
29	A28	30	A29
31	A30	32	A31

#### 4.6 X6-Connector: Control Bus



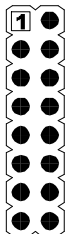
Pin-No	Function	Pin-No	Funktion
1	CLKOUT	2	BR#
3	BG#	4	BB#
5	RD / WR#	6	TSIZ0 / REG#
7	TSIZ1	8	BURST#
9	TS#	10	TA#
11	BI#	12	BDIP#
13	RSTCONF#	14	CS4#
15	CS5#	16	CS6# / CE1_B#
17	CS7# / CE2_B#	18	PORESET#
19	SRESET#	20	IRQ0#
21	IRQ1#	22	IRQ2# / RSV#
23	IRQ3#	24	IRQ_CAN# / IRQ4#
25	IRQ5#	26	IRQ6#
27	IRQ7#	28	TEXP
29	EXTCLK	30	CKE
31	DGND	32	VCC

#### 4.7 X7-Connector: Port PA



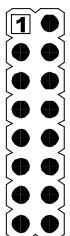
Pin-No	Function	Pin-No	Funktion
1	PA0	2	PA1
3	PA2	4	PA3
5	PA4/USBEXTCLK	6	PA5 / TCLK
7	PA6	8	PA7 / RCLK
9	PA8	10	PA9
11	PA10	12	PA11
13	PA12 / TxD2#	14	PA13 / RxD2#
15	PA14 / TxD1# / USBOE#	16	PA15 / TxD1# / USBRxD

#### 4.8 X8-Connector: Port PB



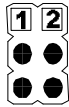
Pin-No	Function	Pin-No	Funktion
1	PB16	2	PB17/LCD_C
3	PB18 / TEN2	4	PB19
5	PB20	6	PB21
7	PB22 / PCVERR	8	PB23 / PCINPACK#
9	PB24	10	PB25
11	PB26	12	PB27
13	PB28	14	PB29
15	PB30	16	PB31/LCD_A

#### 4.9 X9-Connector: Port PB / PC



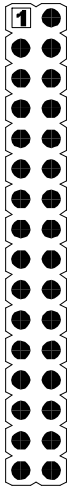
Pin-No	Function	Pin-No	Funktion
1	VCC5V	2	DGND
3	PB14	4	PB15/LCD_B
5	PC4 / KBCLK	6	PC5 / KBDATA
7	PC6 / USBTxN	8	PC7 / LBK1 / USBTXP
9	PC8 / CD2	10	PC9 / COL2
11	PC10 / CD1 / USBRXN	12	PC11 / COL1 / USBRXP
13	PC12 / LBK2	14	PC13 / VCC3EN
15	PC14 / VCC5EN	16	PC15 / TEN1

#### 4.10 X10 Connector: Output Ports / Slot A



Pin-No	Function	Pin-No	Funktion
1	WAIT_A	2	ALE_A
3	OP0	4	OP1
5	CE1_A	6	CE2_A

#### 4.11 X11-Connector: Port PB/PD (LCD /TFT Interface)



Pin-No	Function	Pin-No	Funktion
1	PB17/LCD_C	2	PD15/LD8
3	PB15/LCD_B	4	PD12/LD5
5	PB31/LCD_A	6	PD9/LD2
7	VCC5V	8	PB17/LCD_C
9	PB15/LCD_B	10	PB31/LCD_A
11	GND	12	PD3/SHIFT/CLK
13	GND	14	PD4/HSYNC
15	GND	16	PD5/VSYNC
17	GND	18	PD6/LCD_AC/LOE
19	GND	20	PD3/SHIFT/CLK
21	PD4/HSYNC	22	PD5/VSYNC
23	PD6/LCD_AC/LOE	24	PD7/LD0
25	PD8/LD1	26	PD9/LD2
27	PD10/LD3	28	PD11/LD4
29	PD12/LD5	30	PD13/LD6
31	PD14/LD7	32	PD15/LD8

#### 4.12 X12-Connector: Ethernet RxD / TxD Setup



Strap	Function	Setup for Module
1-3 ON	PA15 / RXD1 / USBRXD to Ethernet RxD	TQM860L
5-3 ON	PA13 / RXD2 to Ethernet RxD	TQM823L, TQM850L, TQM860L
2-4 ON	PA14 / TXD1 / USBOE to Ethernet TxD	TQM860L
6-4 ON	PA12 / TXD2 to Ethernet TxD	TQM823L, TQM850L, TQM860L

#### 4.13 X13-Connector: Ethernet TEN / CD Setup



Strap	Function	Setup for Module
1-3 ON	PC15 / TEN1 to Ethernet TEN	TQM860L
5-3 ON	PB18 / TEN2 to Ethernet TEN	TQM823L, TQM850L, TQM860L
2-4 ON	PC10 / CD1 / USBRXN to Ethernet CD	TQM860L
6-4 ON	PC8 / CD2 to Ethernet CD	TQM823L, TQM850L, TQM860L

#### 4.14 X14-Connector: Ethernet COL / LBK Setup



Strap	Function	Setup for Module
1-3 ON	PC11 / COL1 / USBRXP to Ethernet COL	TQM860L
5-3 ON	PC9 / COL2 to Ethernet COL	TQM823L, TQM850L, TQM860L
2-4 ON	PC7 / LBK1 / USBTXP to Ethernet LBK	TQM860L
6-4 ON	PC12 / LBK2 to Ethernet LBK	TQM823L, TQM850L, TQM860L

#### 4.15 X15-Connector: External Power Supply I

For external Power Supply. Use **only** the Power Supply, which is supplied with the Starterkit.

Input: 12 VAC  $\pm$ 5%, 1 A

#### 4.16 X16-Connector: VCC3V3 ON / OFF

Is the Strap On the internal Power Supply is aktiv. On the Connector X23 pin 4 are 3,3V available.  
Do not use these Power output!

Is the Strap Off the Internal Power Supply is not aktiv. The Connector X23 pin 4 is the 3,3V Input from the Module.

**Do not switch on the 3,3V Power Supply from the Starterkit or use the 3,3V input, if your Minimodule TQM8xxL have a Regulator on board!**

	Strap X16	Function
	Strap ON	VCC3V3 ON
	Strap OFF	VCC3V3 OFF

#### 4.17 X17-Connector: VCC5V ON / OFF

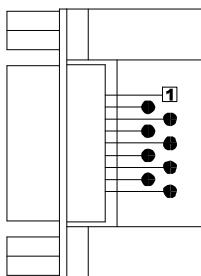
Is the Strap On the internal Power Supply is aktiv. On the Connector X23 pin 2 are 5V available.

Do not use these Power output!

Is the Strap Off the Internal Power Supply is not aktiv. The Connector X23 pin 24 is the 5V Input from the Module.

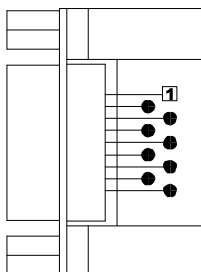
Strap X17	Function
Strap ON	VCC5V ON
Strap OFF	VCC5V OFF

#### 4.18 X18-Connector: RS232 COM1



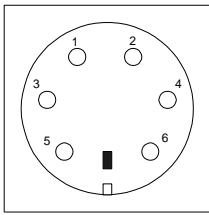
Pin-No	Function
1	RESIN#
2	SMRxD1
3	SMTxD1
4	n.c.
5	DGND
6	ENMON#
7	n.c.
8	n.c.
9	n.c.

#### 4.19 X19-Connector: RS232 COM2



Pin-No	Function
1	n.c.
2	SMRxD2
3	SMTxD2
4	n.c.
5	DGND
6	n.c.
7	n.c.
8	n.c.
9	n.c.

#### 4.20 X20-Connector: Keyboard Interface



Pin-No	Function
1	PC5 / KBDATA
2	n.c.
3	DGND
4	VCC 5V
5	PC4 / KBCLK
6	n.c.

#### 4.21 X21-Connector: Lauterbach Trace32 Interface

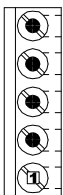
Details and Pin Configuration see Lauterbach Trace32 Manual.

#### 4.22 X22-Connector: USB Interface

USB Interface only on STK8xxL Rev.300 and Rev.400 available.

Pin-No	Function
1	VCC5V / see X31
2	D-
3	D+
4	DGND

#### 4.23 X23-Connector: External Power Supply II



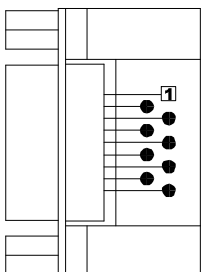
Pin-No	Function
5	VBAT
4	VCC3V3
3	DGND
2	VCC5V
1	VCC 12V

#### 4.24 X24-Connector: VCC5SENSE Setup

Strap X24	Function
Strap ON	VCC5SENSE connected to VCC5V
Strap OFF	VCC5SENSE with 4k7 Pull-Up to VCC3V3

This Function is only used by Lauterbach Trace32

#### 4.25 X25-Connector: CAN Interface



Pin-No	Function
1	CAN2_L
2	CAN1_L
3	DGND
4	CAN2_H
5	n.c.
6	DGND, see X26
7	CAN1_H
8	n.c.
9	VCC5V, see X27

#### 4.26 X26-Connector: X25 - Pin 6 Setup CAN Interface

Strap X26	Function
Strap ON	X25 – Pin 6 connected to DGND

Strap OFF	X25 – Pin 6 n.c.
-----------	------------------

#### 4.27 X27-Connector: X25 - Pin 9 Setup CAN Interface

Strap X27	Function
Strap ON	X25 – Pin 9 connected to VCC5V
Strap OFF	X25 – Pin 9 n.c.

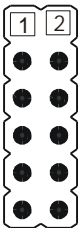
#### 4.28 X28-Connector: CAN1 Termination

Strap X28	Function
Strap ON	CAN1 terminated with 120R (CAN1_L to CAN1_H)
Strap OFF	CAN1 not terminated

#### 4.29 X29-Connector: CAN2 Termination

Strap X29	Function
Strap ON	CAN2 terminated with 120R (CAN2_L to CAN2_H)
Strap OFF	CAN2 not terminated

#### 4.30 X30-Connector: X22 Setup USB Interface

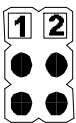


Strap X35	Function
1-3 ON	Full speed device
2-4 ON	Low speed device
3-5/6-4 ON	Host
7-8 ON	PC10/CD1/USBRXN connected to Pin5 from IC D4
9-10 ON	PC11/COL1/USBRXP connected to Pin4 from IC D4
11-12 ON	PA15/RXD1/USBRXD connected to Pin 3 from IC D4

#### 4.31 X31-Connector: X22 - Pin 1 Setup USB Interface

Strap X31	Function
Strap ON	X22 – Pin 1 connected to VCC 5V
Strap OFF	X22 – Pin 1 n.c.

#### 4.32 X32-Connector: SPARE Pins / Fast Ethernet



Pin-No	Function	Pin-No	Function
1	VCC3V3	2	HRESET
3	SPARE1 / MII_CRS	4	SPARE2 / MII_MDIO
5	SPARE3 / MII_TX_EN	6	SPARE4 / MII_COL

#### 4.33 X33-Connector: LED V16 to V31

Connected over 560R to PB16 to PB31(see Schematics)

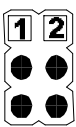
Strap X33	Function
Strap ON	LED V16 to V31 active
Strap OFF	LED V16 to V31 not active

#### 4.34 X34-Connector: X18- Pin 6 Setup

See TQM8xxL Hardware and Software Manual (Download and Debugging interface)

Strap X34	Function
Strap ON	X18 – Pin 6 connected to ENMON# fixed to DGND
Strap OFF	X18 – Pin 6 connected to ENMON#

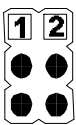
#### 4.35 X35-Connector: X21 - Pin 23 / Pin 25 Setup



Strap X35	Function	Setup for Modul
1-3 ON	A0 to X21 - Pin 25	TQM860L
5-3 ON	CS_FLASH0# / CS0# to X21 - Pin 25	TQM823L, TQM850L
2-4 ON	A1 to X21 - Pin 23	TQM860L
6-4 ON	CS_FLASH1# / CS1# to X21 - Pin 23	TQM823L, TQM850L

This Function is only used by Lauterbach Trace32

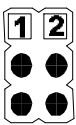
#### 4.36 X36-Connector: X21- Pin 19 / Pin 21 Setup



Strap X36	Function	Setup for Modul
1-3 ON	A2 to X21 - Pin 21	TQM860L
5-3 ON	CS_SDRAM0# / CS2# to X21 - Pin 21	TQM823L, TQM850L
2-4 ON	A3 to X21 – Pin 19	TQM860L
6-4 ON	CS_CAN# / CS3# to X21 - Pin 19	TQM823L, TQM850L

This Functions is only used by Lauterbach Trace32

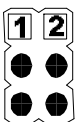
#### 4.37 X37-Connector: X21- Pin 41 / Pin 45 Setup



Strap X37	Function	Setup for Modul
1-3 ON	A4 to X21 - Pin 45	TQM860L
5-3 ON	CS4# to X21 - Pin 45	TQM823L, TQM850L
2-4 ON	A5 to X21 – Pin 41	TQM860L
6-4 ON	CS5# to X21 - Pin 41	TQM823L, TQM850L

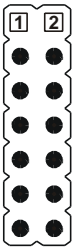
This Functions is only used by Lauterbach Trace32

#### 4.38 X38-Connector: Burst Adress



Pin-No	Function	Pin-No	Funktion
1	BADDR30/REG	2	BADDR29
3	BADDR28	4	AS
5	CR/IRQ3	6	IRQ4/KR/RETRY

### 4.39 X39Connector: Byte Select / General Purpose Line



Pin-No	Function	Pin-No	Funktion
1	BS_A0	2	BS_A1
3	BS_A2	4	BS_A3
5	GPL_A4	6	GPL_B4
7	GPL_A5	8	GPL_AB0
9	GPL_AB1	10	GPL_AB2
11	GPL_AB3	12	TMS
13	TEA	14	HRESETF

### 4.40 LED V16 ... V31

LED	Function
V16	Connected to PB16
V17	Connected to PB17
V18	Connected to PB18
V19	Connected to PB19
V20	Connected to PB20
V21	Connected to PB21
V22	Connected to PB22
V23	Connected to PB23
V24	Connected to PB24
V25	Connected to PB25
V26	Connected to PB26
V27	Connected to PB27
V28	Connected to PB28
V29	Connected to PB29
V30	Connected to PB30
V31	Connected to PB31

To program the LED the Strap X33 has to be set to ON

### 4.41 S1 (Reset Switch)

Reset Switch

## 5. Order Codes

### 5.1 Order Codes STK823L

Starterkit	Order Code	Order No.	Description
STK823LDBBA3-80	STK823L-AA	134398.0301	Starterkit with TQM823LDBBA3-80, EVA-board, power supply (EUR or US) and download-cable. Module with <ul style="list-style-type: none"> <li>• MPC823-80MHz</li> <li>• 8 MB Flash</li> <li>• 16 MB SDRAM</li> <li>• 2* CAN-Interface</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>
STK823LDBBA3-E50	STK823L-AB	125314.0301	Starterkit with TQM823LDBBA3-E50, EVA-board, power supply (EUR or US) and download-cable. Module with <ul style="list-style-type: none"> <li>• MPC823E-50MHz</li> <li>• 8 MB Flash</li> <li>• 16 MB SDRAM</li> <li>• 2* CAN-Interface</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>

### 5.2 Order Codes STK850L

STK850LDBBA3-SR50	STK850L-AA	134401.0301	Starterkit with TQM850LDBBA3-SR50, EVA-board, power supply (EUR or US) and download-cable. Module with <ul style="list-style-type: none"> <li>• MPC850SR-50MHz</li> <li>• 8 MB Flash</li> <li>• 16 MB SDRAM</li> <li>• 2* CAN-Interface</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>
STK850LDBBA3-SR80	STK850L-AB	130707.0301	Starterkit with TQM850LDBBA3-SR80, EVA-board, power supply (EUR or US) and download-cable. Module with <ul style="list-style-type: none"> <li>• MPC850SR-80MHz</li> <li>• 8 MB Flash</li> <li>• 16 MB SDRAM</li> <li>• 2* CAN-Interface</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>

### 5.3 Order Codes STK855L (STK855L available on request)

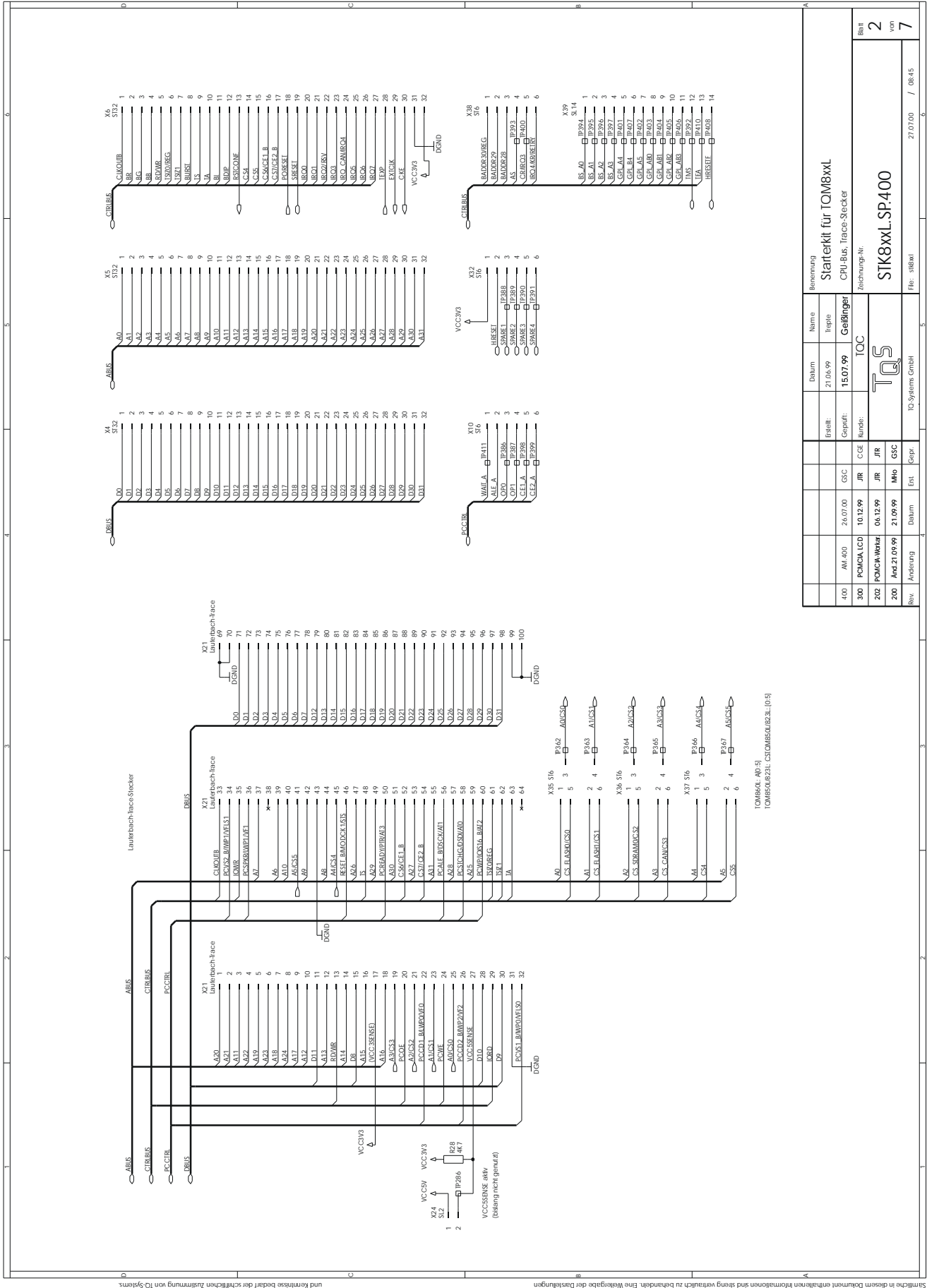
STK855LDB0A3-T80	STK855L-AA	130276.0202	<p>Starterkit with TQM855LDB0A3-T80, EVA-board, power supply (EUR or US) and download-cable. Module with</p> <ul style="list-style-type: none"> <li>• MPC855T-80MHz</li> <li>• 8 MB Flash</li> <li>• 16 MB SDRAM</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>
STK855LDB0A3-T50	STK855L-AB	134409.0202	<p>Starterkit with TQM855LDB0A3-T50, EVA-board, power supply (EUR or US) and download-cable. Module with</p> <ul style="list-style-type: none"> <li>• MPC850T-50MHz</li> <li>• 8 MB Flash</li> <li>• 16 MB SDRAM</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>

#### 5.4 Order Codes STK860L

STK860LDB0A3-P80	STK860L-AA	128523.0202	<p>Starterkit with TQM860LDB0A3-P80, EVA-board, power supply (EUR or US) and download-cable. Module with</p> <ul style="list-style-type: none"> <li>• MPC860P-80MHz</li> <li>• 8 MB Flash</li> <li>• 16 MB SDRAM</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>
STK860LDB0A3-P50	STK860L-AB	130972.0202	<p>Starterkit with TQM860LDB0A3-P50, EVA-board, power supply (EUR or US) and download-cable. Module with</p> <ul style="list-style-type: none"> <li>• MPC850P-50MHz</li> <li>• 8 MB Flash</li> <li>• 16 MB SDRAM</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>
STK860LDDBA3-P80	STK860L-AC	134412.0202	<p>Starterkit with TQM860LDDBA3-P80, EVA-board, power supply (EUR or US) and download-cable. Module with</p> <ul style="list-style-type: none"> <li>• MPC860P-80MHz</li> <li>• 8 MB Flash</li> <li>• 64 MB SDRAM</li> <li>• 2* CAN-Interface</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>
STK860LDDBA3-P50	STK860L-AD	134413.0202	<p>Starterkit with TQM860LDDBA3-P50, EVA-board, power supply (EUR or US) and download-cable. Module with</p> <ul style="list-style-type: none"> <li>• MPC860P-50MHz</li> <li>• 8 MB Flash</li> <li>• 64 MB SDRAM</li> <li>• 2* CAN-Interface</li> <li>• 2* RS232 Interface</li> <li>• DC/DC Converter</li> <li>• 5 mm Board to Board, 240 pin., RM0.8 mm</li> <li>• 54*44 mm<sup>2</sup></li> </ul>

Other version on request.





Rev.	Änderung	Datum	Ent.	Gepr.	IO-Systeme GmbH
300	PCMCIA-LCD	10.12.99	JIR	CCE	
400	AM-400	26.07.00	GSC		
202	PCMCIA-Writer	06.12.99	JIR	JFR	
200	Änd. 21.09.99	21.09.99	Mhb	GSC	

Freiwill.	Datum	Name	Benennung
	21.06.99	Trieste	Starterkit für TOM8xxl
	15.07.99	Geißlinger	CPU-Bus, Trace-Stecker

Zeichnungs-Nr.	Blatt
STK8xxl-SP.400	2
	von 7

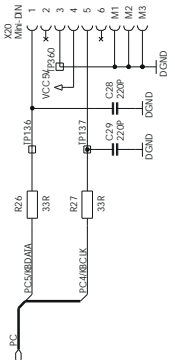
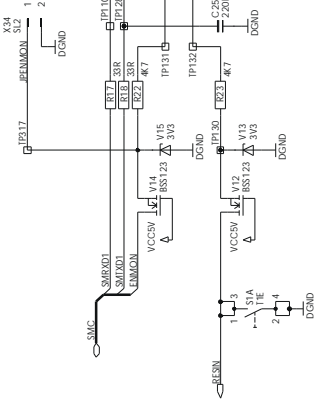
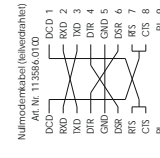
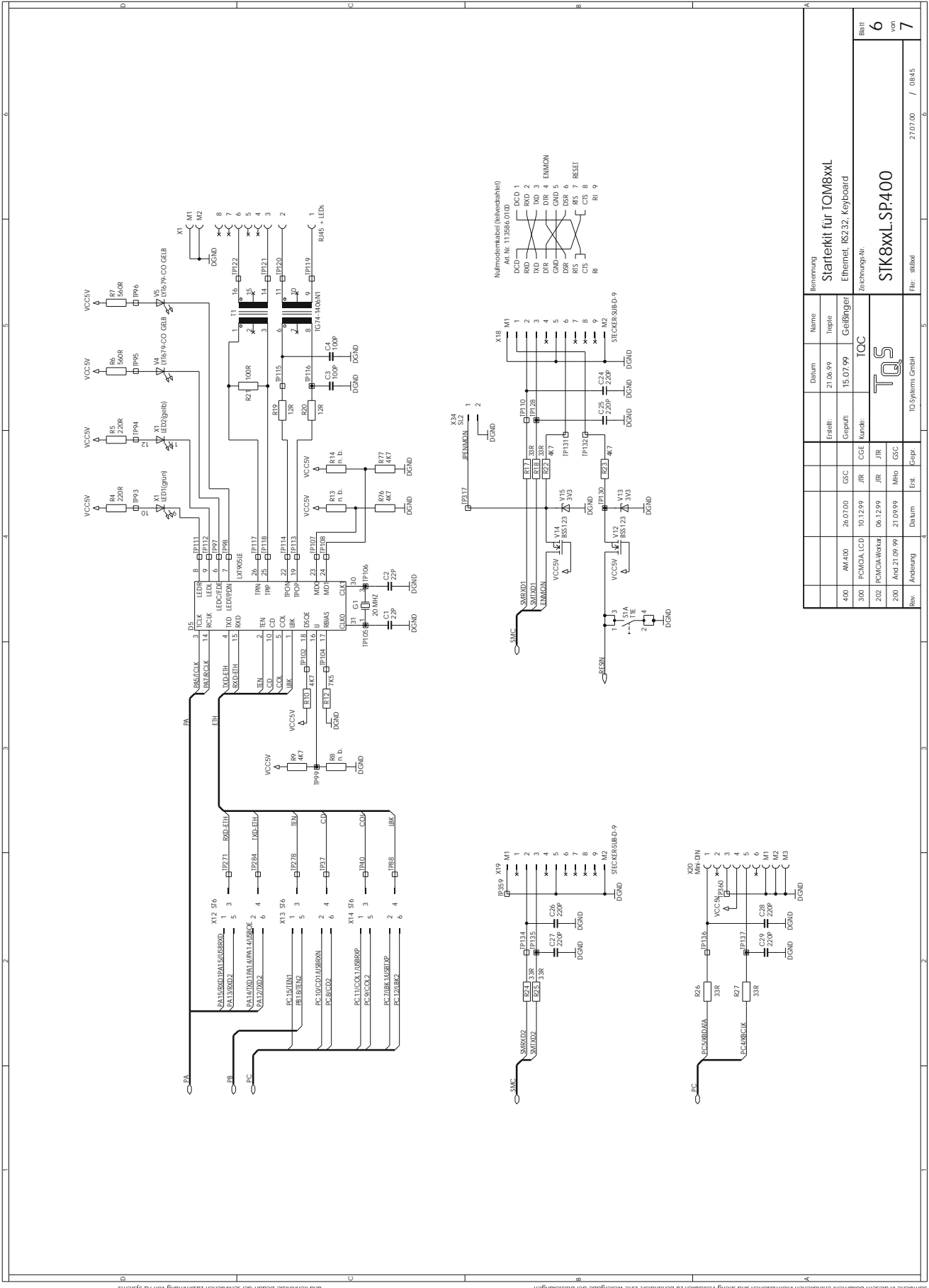
Rev.	Änderung	Datum	Ent.	Gepr.	IO-Systeme GmbH
		27.07.00			08:45

Siehe in diesem Dokument enthaltenen Informationen und streng vertraulich zu behandeln. Eine Weitergabe der Darstellungen und Kernnisse bedarf der schriftlichen Zustimmung von IO-Systeme.









Rev.	Änderung	Datum	Erst.	Gepr.	Mitg.	GSC	JIR	CCE	Numbe.	Grupp.	Erstlth.	Datum	Name	Bemerkung
300		10.12.99	JIR											
400		26.07.00	GSC											
202		06.12.99	JIR											
200		21.09.99	Mitg.											
100		15.07.99	JIR											
100		21.06.99	JIR											

Zeichnungs-Nr.: <b>STK8xxL.SP400</b>													
Benennung: <b>Starterkit für TOM8xxl</b> Ethernet, RS232, Keyboard													
Datum: <b>27.07.00</b> / 0845													
Blatt von <b>6</b>													

Sämtliche in diesem Dokument enthaltenen Informationen sind streng vertraulich zu behandeln. Eine Weitergabe der Daten ist untersagt.



Rev No.	Designed by:	Date	Approved by:	Date:	Changes:
001	Heifi	07.12.99			1 <sup>st</sup> Version – preliminary STK8xxL Rev.300
002	KOZ	18.01.00			2 <sup>nd</sup> Version – preliminary STK8xxL Rev.300
003	KOZ	24.01.00			1 <sup>st</sup> Version – preliminary STK8xxL Rev.300
100	ANW	16.03.01	WHF	19.03.01	1 <sup>st</sup> Version – preliminary STK8xxL Rev.400
101	ANW	13.06.01	KNZ	15.06.01	1 <sup>st</sup> Version –STK8xxL Rev.400

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