

Wöhr Keyboard controller

User's manual and documentation

www.Tastaturcontroller.de

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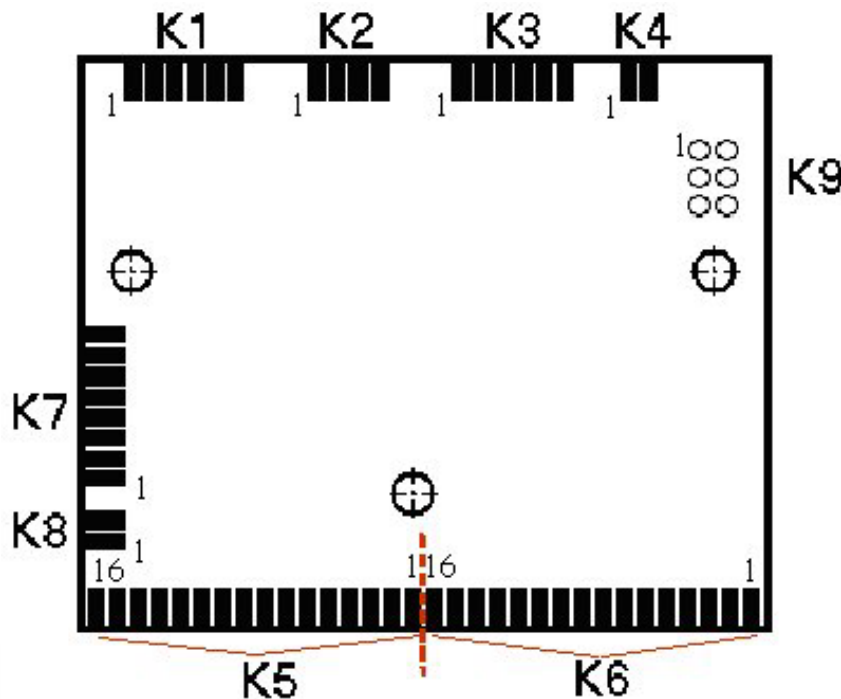
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1. Introduction

This controller board is composed of standard modular blocks and supports one key matrix with up to 256 keys, AT/PS2 and RS232 output, secondary keyboard and integrated buzzer.

2. Connectors

Below you can see the top view of the keyboard controller **mtcon1616**. All connectors are labelled and oriented.



2.1 List of connectors

	No. Of Circuits	Description
K1	6	Keyboard connection AT/PS2
K2	4	Keyboard connection RS232
K3	6	Secondary keyboard connection
K4	2	External Power Supply
K5	16	Matrix connection HOR
K6	16	Matrix connection VER
K7	8	LED Connection

K8	2	External Buzzer Connection
K9	6	External TIPRO Bus Connection

2.2 Keyboard connection AT/PS2 – signal table

No.	Name	Direction	Description
1	SUPPLY	Power	+5V Supply
2	GND	Power	Ground
3	PDATA	In/Out	Data
4	PCLK	In/Out	Clock
5	SHIELD		Shield
6	NC		

2.3 Keyboard connection RS232 – signal table

No.	Name	Direction	Description
1	SUPPLY	Power	+5V Supply
2	GND	Power	Ground
3	RX232	In	Receive data
4	TX232	Out	Transmit data

2.4 Secondary keyboard connection – signal table

No.	Name	Direction	Description
1	SUPPLY	Power	+5V Supply
2	GND	Power	Ground
3	TDATA	In/Out	Data
4	TCLK	In/Out	Clock
5	SHIELD		Shield
6	NC		

2.5 External Power Supply – signal table

No.	Name	Direction	Description
1	SUPPLY	Power	+5V Supply
2	GND	Power	Ground

2.6 Key matrix connectors (VER & HOR)– signal table

Connector No.	Pin No.	Name
5 (HOR.)	1	HA
5 (HOR.)	2	HB
5 (HOR.)	3	HC
5 (HOR.)	4	HD
5 (HOR.)	5	HE
5 (HOR.)	6	HF
5 (HOR.)	7	HG
5 (HOR.)	8	HH
5 (HOR.)	9	HI
5 (HOR.)	10	HJ
5 (HOR.)	11	HK
5 (HOR.)	12	HL
5 (HOR.)	13	HM
5 (HOR.)	14	HN
5 (HOR.)	15	HO
5 (HOR.)	16	HP
6 (VER.)	1	V1
6 (VER.)	2	V2
6 (VER.)	3	V3
6 (VER.)	4	V4
6 (VER.)	5	V5
6 (VER.)	6	V6
6 (VER.)	7	V7
6 (VER.)	8	V8
6 (VER.)	9	V9
6 (VER.)	10	V10
6 (VER.)	11	V11
6 (VER.)	12	V12
6 (VER.)	13	V13
6 (VER.)	14	V14
6 (VER.)	15	V15
6 (VER.)	16	V16

2.7 LED Connection – signal table

No	Description
1	VCC (+5V)
2	Layer 1
3	Layer 2
4	Layer 3
5	Layer 4
6	Num Lock
7	Caps Lock
8	Scroll Lock

2.8 External Buzzer Connection – signal table

No.	Name	Direction	Description
1	VCC	Power	+5V Supply
2	Buzzer	Out	Buzzer signal

2.9 mechanical dimensions

