

KAB-JILI-TELB03

Part-No. : 63304

Technical Manual (Preliminary!)	
Table of Contents	
1.0	General Information and Important Notes
2.0	Technical Information Summary
3.0	Configuration
4.0	Connectors
5.0	Layout / Dimensions
6.0	Schematic
7.0	Technical Support
8.0	Revision History

1.0	User Information
	<p>Copyright 2002 by Kontron Hamburg GmbH & Co.KG. In this document Kontron Hamburg GmbH & Co.KG will also be referred to by the short form "Kontron Hamburg". The information in this document has been carefully checked and is believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies. Furthermore, Kontron Hamburg reserves the right to make changes to any portion of this manual to improve reliability, function or design. Kontron Hamburg does not assume any liability for any product or circuit described herein.</p>
1.1	Trademarks
	<p>AT and IBM are trademarks of International Business Machines. XT, AT, PS/2 and Personal System/2 are trademarks of International Business Machines Corporation. Microsoft is a registered trademark of Microsoft Corporation. Intel is a registered trademark of Intel Corporation. All other products and trademarks mentioned in this manual are trademarks of their respective owners. The reproduction, transmission or use of this document or its contents is not permitted without expressed written authority. Offenders will be liable for damages. All rights created by patent grant or registration of a utility model or design, are reserved.</p>
1.2	General
	<p>For the circuits, descriptions and tables indicated no responsibility is assumed as far as patents or other rights of third parties are concerned. The information in the Technical Descriptions describes the type of the boards and shall not be considered as assured characteristics. The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.</p>

1.3	Warranty
	<p>Each board is carefully and thoroughly tested before being shipped. If, however, problems should occur during the operation, please check your user specific settings of all boards included in your system. This is often the source of the fault. If a board is defective, it can be sent to your supplier for repair. Please take care of the following steps:</p> <ul style="list-style-type: none"> - The board returned should correspond to the factory default settings since a test is only possible under this settings. - In order to repair your board as fast as possible , we require some additional information from you. Please fill out the attached Repair Form and include it with the defective board. - If possible, the board will be upgraded to the latest version without additional cost. - Upon receipt of the board, please be aware that your user specific settings were changes during the test. <p>Within the guarantee, the repair is free as long as the guarantee conditions were kept. If no fault has been found, you will be charged with the test cost due to the high test expenditure. Repairs outside of the guarantee will be charged.</p> <p>This Kontron Hamburg product is warranted against defects in material and workmanship for our guaranteed warranty period from the date of shipment. During the warranty period, Kontron Hamburg will, at its option, either repair or replace products which prove to be defective.</p> <p>For warranty service or repair, the product must be returned to a service facility designated by Kontron Hamburg.</p> <p>The foregoing warranty shall not apply to defects resulting from improper or inadequate maintenance or handling by buyer, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper installation or maintenance.</p> <p>Kontron Hamburg will not be responsible for any defects or damages due to a faulty Kontron Hamburg product other than the products supplied by Kontron Hamburg.</p>

2.0	Technical Information Summary
	KAB-JILI-TELB03 is used to connect Chi Mei M190E2-L01 type flat panel to Kontron JILI interface.

3.0	Configuration
	The KAB-JILI-TELB03 is configured with +5,0V DC for the flat panel power supply and +12V DC for the backlight power supply.

3.1	Configuration backlight power supply
Configuration:	Function:
R19 shorted R20 shorted	+12V DC max.current 1.0A + 5V DC max.current 1.0A
	!! Caution !! Never short R19 and R20 at the same time! This will cause damage to the system!

4.0	Connectors	
4.1	Flatfoil connector	X1
4.2	Flat Panel connector	X2
4.3	Flat Panel connector (Cable)	
4.4	Backlight connector	X4

4.1	Flatfoil connector X1				
	Flatfoil 40 Contacts, Right Angle, Bottom Contact Case/Size: 0,5mm Pitch, Series: 6210 / ZIF				
Description	Name	Pin	Pin	Name	Description
Not connected	LTGIO0	1	0 0	2	FTX0- Odd Receiver Signal(-) (R1IN 0-)
Odd Receiver Signal(+) (R1IN 0+)	FTX0+	3	0 0	4	ENAVDD Controls Panel Digital Power
Odd Receiver Signal(-) (R1IN 1-)	FTX1-	5	0 0	6	FTX1+ Odd Receiver Signal(+) (R1IN 1+)
Not connected	BIASON	7	0 0	8	FTX2- Odd Receiver Signal(-) (R1IN 2-)
Odd Receiver Signal(+) (R1IN 2+)	FTX2+	9	0 0	10	GND Power Ground
Odd Clock Signal(-) (CK1IN -)	FTXC-	11	0 0	12	FTXC+ Odd Clock Signal(+) (CK1IN +)
Power Ground	GND	13	0 0	14	FTX3- Not connected
Not connected	FTX3+	15	0 0	16	DDCDAT I ² C Data
Not connected	STX0-	17	0 0	18	STX0+ Not connected
I ² C Clock	DDCCLK	19	0 0	20	STX1- Not connected
Not connected	STX1+	21	0 0	22	GND Power Ground
Not connected	STX2-	23	0 0	24	STX2+ Not connected
Power Ground	GND	25	0 0	26	STXC- Not connected
Not connected	STXC+	27	0 0	28	GND Power Ground
Not connected	STX3-	29	0 0	30	STX3+ Not connected
+5.0V DC Power	Vcc_F	31	0 0	32	Vcc_F +5.0V DC Power
+5.0V DC Power	Vcc_F	33	0 0	34	Vcc_F +5.0V DC Power
Enables Backlight	BLON#	35	0 0	36	BKLGND Power Ground
Power Ground	BLKGND	37	0 0	38	+12V_F +12V DC Power
+12V DC Power	+12V_F	39	0 0	40	+12V_F +12V DC Power

4.2		Flat Panel connector X2				
Connector Double Row 2mm, 40 Contacts, Gold plated						
Description	Name	Pin	Pin	Name	Description	
Backlight power	SW_BACK	1	0 0	2	SW_BACK	Backlight power
Not connected	NC	3	0 0	4	STX3+	Receiver Data
Receiver Data	STX3-	5	0 0	6	NC	Not connected
Receiver Clock	STXC+	7	0 0	8	STXC-	Receiver Clock
Not connected	NC	9	0 0	10	STX2+	Receiver Data
Receiver Data	STX2-	11	0 0	12	NC	Not connected
Receiver Data	STX1+	13	0 0	14	STX1-	Receiver Data
Not connected	NC	15	0 0	16	STX0+	Receiver Data
Receiver Data	STX0-	17	0 0	18	NC	Not connected
Receiver Data	FTX3+	19	0 0	20	FTX3-	Receiver Data
Power Ground	GND	21	0 0	22	GND	Power Ground
Not connected	NC	23	0 0	24	NC	Not connected
Power Ground	GND	25	0 0	26	FTXC+	Receiver Clock
Receiver Clock	FTXC-	27	0 0	28	GND	Power Ground
Receiver Data	FTX2+	29	0 0	30	FTX2-	Receiver Data
Power Ground	GND	31	0 0	32	FTX1+	Receiver Data
Receiver Data	FTX1-	33	0 0	34	GND	Power Ground
Receiver Data	FTX0+	35	0 0	36	FTX0-	Receiver Data
Power Ground	GND	37	0 0	38	GND	Power Ground
Panel Power	SW_VDD	39	0 0	40	SW_VDD	Panel Power

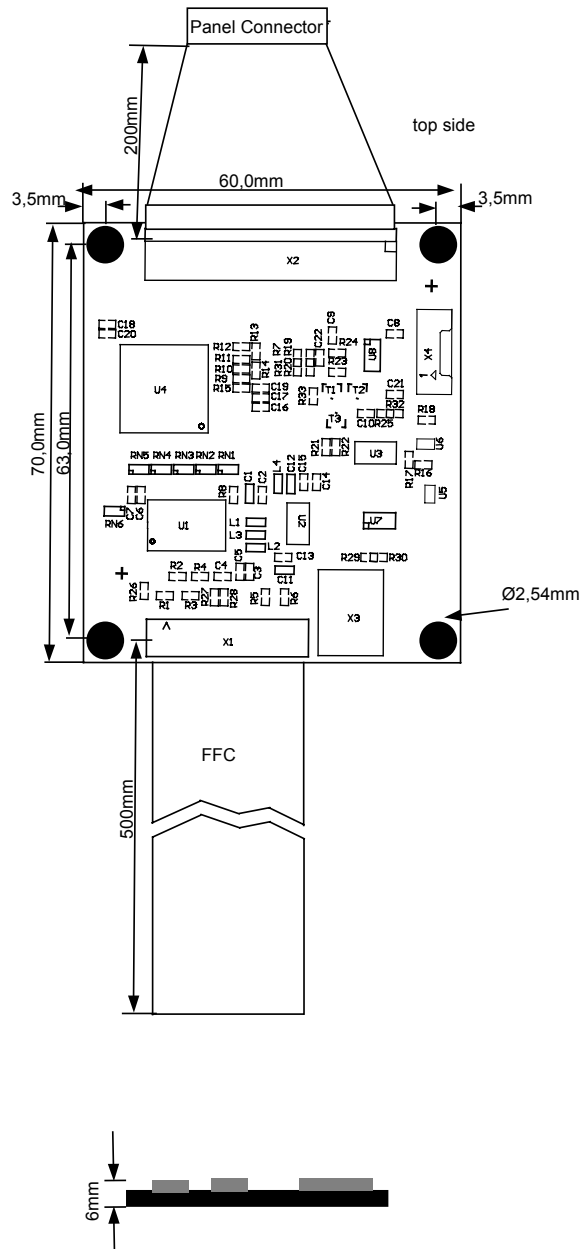
4.3		Flat Panel connector (Cable)				
Connector Single Row 1,0 mm, 30 Contacts JAE FI-X30H						
Description	Name	Pin	Pin	Name	Description	
Receiver Data	FTX0-	1	0 0	2	FTX0+	Receiver Data
Receiver Data	FTX1-	3	0 0	4	FTX1+	Receiver Data
Receiver Data	FTX2-	5	0 0	6	FTX2+	Receiver Data
Power Ground	GND	7	0 0	8	FTXC-	Receiver Clock
Receiver Clock	FTXC+	9	0 0	10	FTX3-	Receiver Data
Receiver Data	FTX3+	11	0 0	12	STX0-	Receiver Data
Receiver Data	STX0+	13	0 0	14	GND	Power Ground
Receiver Data	STX1-	15	0 0	16	STX1+	Receiver Data
Power Ground	GND	17	0 0	18	STX2-	Receiver Data
Receiver Data	STX2+	19	0 0	20	STXC-	Receiver Clock
Receiver Clock	STXC+	21	0 0	22	STX3-	Receiver Data
Receiver Data	STX3+	23	0 0	24	GND	Power Ground
Not connected	NC	25	0 0	26	NC	Not connected
Not connected	NC	27	0 0	28	NC	Not connected
Panel Power	SW_VDD	29	0 0	30	SW_VDD	Panel Power

4.4		Backlight connector X4		
Board to Cable Connector, single row, 7 Contacts, Right Angle Case/Size: 1,25mm Pitch, Matching connector: Molex 51021-0700				
Description	Name	Pin	Function	
NC		1	<input type="checkbox"/>	Not connected
Brightness	BRIGHT	2	<input type="checkbox"/>	0V – 5V
Power Ground	GND	3	<input type="checkbox"/>	for Backlight Ground
Backlight power supply	SW_BKL	4	<input type="checkbox"/>	5/12 Volt DC (see 3.1)
Backlight power supply	SW_BKL	5	<input type="checkbox"/>	5/12 Volt DC (see 3.1)
Power Ground	GND	6	<input type="checkbox"/>	for Backlight Ground
Enable Backlight	ENABKL	7	<input type="checkbox"/>	Backlight on/off control signal (TTL)

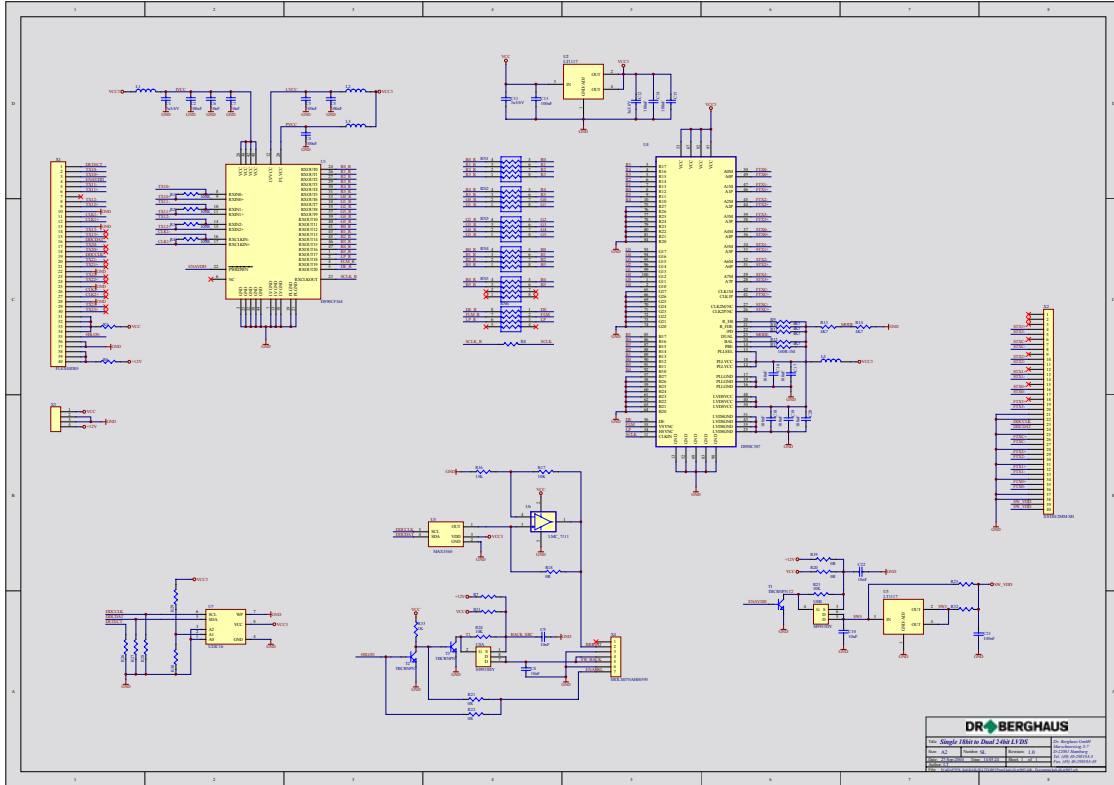
5.0

Layout / Dimensions

KAB-JILI-TELB03



6.0 Schematics



7.0	Technical Support
	<p>Please report any errors or problems to this email address: sales_graphic@kontron.com.</p> <p>Normally, there is no telephone support. In your email message, please include the following information :</p> <p style="padding-left: 40px;">Company Name Your Name Address Email Telephone/Fax Exact description of the hardware, etc. Exact description of the software in used (for example: Win 95 with driver XYZ) Exact description of the error.</p>

8.0	Revision History		
Date	Author	Version	Description
27.09.2004	S. Leuchtenberger	1.0	Initial Release