

KAB-JILI-TELB03

Part-No. : 63304

	Technical Manual (Preliminary!)
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1.0	User Information
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1.3	Warranty
	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: - 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. 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. 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. For warranty service or repair, the product must be returned to a service facility designated by Kontron Hamburg. 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. 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.

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

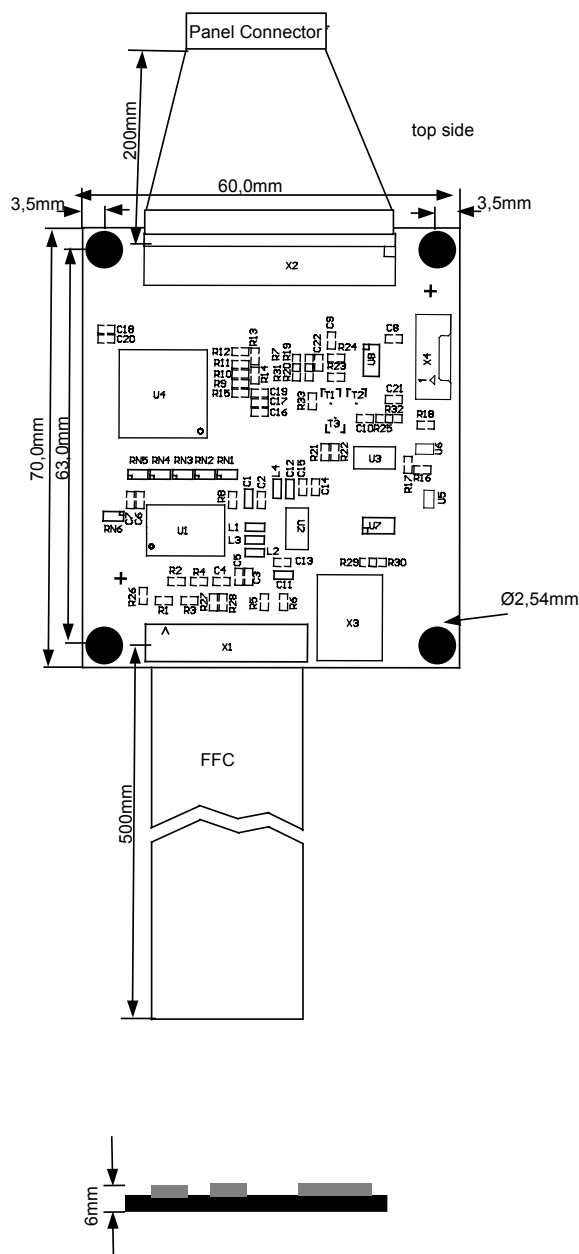
4.2		Flat Panel connector X2			
		Connector Double Row 2mm, 40 Contacts, Gold plated			
Description	Name	Pin	Pin	Name	Description
Backlight power	SW_BACK	1	0 0	2	SW_BACK
Not connected	NC	3	0 0	4	STX3+
Receiver Data	STX3-	5	0 0	6	NC
Receiver Clock	STXC+	7	0 0	8	STXC-
Not connected	NC	9	0 0	10	STX2+
Receiver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

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	FTX1-	3	0 0	4	FTX1+
Receiver Data	FTX2-	5	0 0	6	FTX2+
Power Ground	GND	7	0 0	8	FTXC-
Receiver Clock	FTXC+	9	0 0	10	FTX3-
Receiver Data	FTX3+	11	0 0	12	STX0-
Receiver Data	STX0+	13	0 0	14	GND
Receiver Data	STX1-	15	0 0	16	STX1+
Power Ground	GND	17	0 0	18	STX2-
Receiver Data	STX2+	19	0 0	20	STXC-
Receiver Clock	STXC+	21	0 0	22	STX3-
Receiver Data	STX3+	23	0 0	24	GND
Not connected	NC	25	0 0	26	NC
Not connected	NC	27	0 0	28	NC
Panel Power	SW_VDD	29	0 0	30	SW_VDD

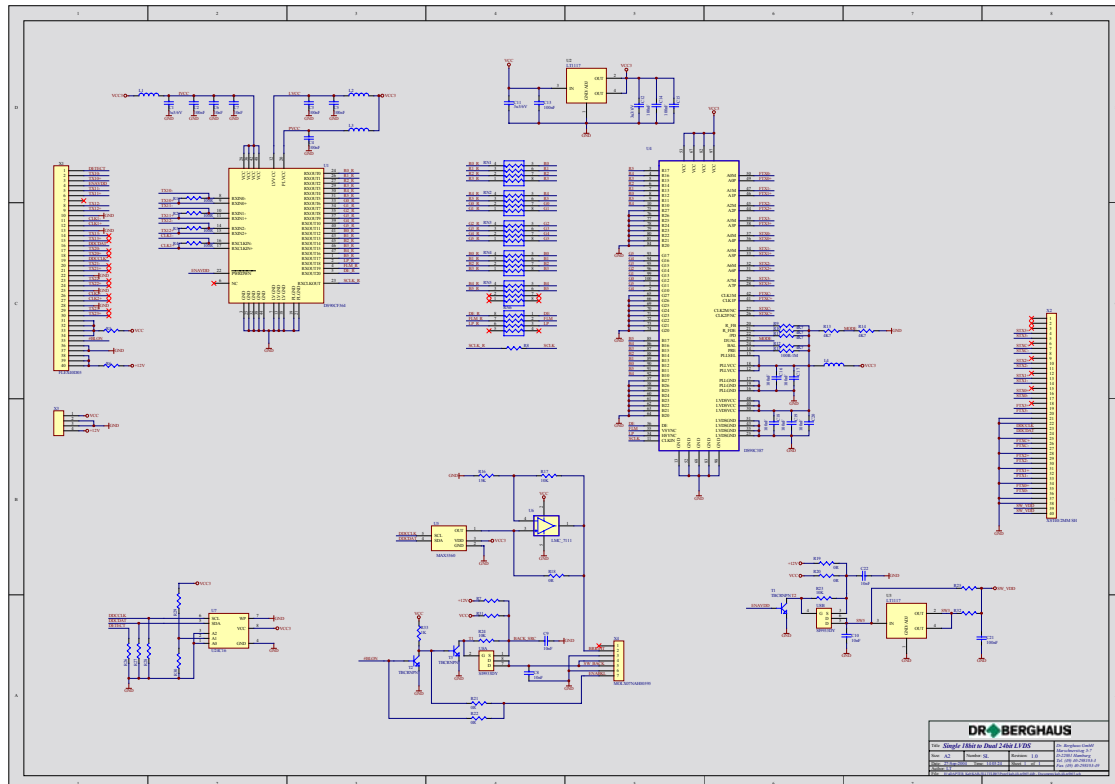
4.4	Backlight connector X4		
	Board to Cable Connector, single row, 7 Contacts, Right Angle Case/Size: 1,25mm Pitch, Matching connector: Molex 51021-0700		
Description	Name	Pin	Function
NC		1 O	Not connected
Brightness	BRIGHT	2 O	0V – 5V
Power Ground	GND	3 O	for Backlight Ground
Backlight power supply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

5.0 Layout / Dimensions

KAB-JILI-TELB03



Schematics



7.0	Technical Support
	Please report any errors or problems to this email address: sales_graphic@kontron.com. Normally, there is no telephone support. In your email message, please include the following information : 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.

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