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624-251

TRIK Y033D-8019-2
SANYO
10.4" VGA MONO KIT
USER GUIDE

PRODUCT INFORMATION

1. INTRODUCTION

This document describes the installation and connection details of the Trident kit TRIK-Y033D-8019-2 which is the kit of parts for driving the Sanyo 10.4" VGA Mono LCD panel from an ISA slot of an IBM compatible PC.

The TRIK provides a simple and convenient means of connecting the driver card to the LCD allowing a trouble-free hardware configuration for drive from an ISA slot of an IBM compatible PC.

The TRIK consists of the following items,

LCM5526-32NTK	- 10.4" Mono VGA
UV610-DL6480	- PC ISA Driver Card
UV6-3594-V0TB-B2K1-A	- Panel Interface Unit
CI-A2A2-A	- 1m Cable
TRIDM 610/615	- Disk + Manual

2. CONNECTION

Refer to Page 3 for a drawing of the positions of the connections to be made.

IMPORTANT:- The LCD, UV610-DL6480 and UV6-3594-V0TB-B2K1-A cards contain CMOS devices and are static sensitive. Full ESD procedures must be observed when handling and connecting these items.

The UV610-DL6480 card may be plugged into any PC with a 16-bit expansion slot. The previously installed VGA card must be removed (or the motherboard VGA drive disabled).

Both ends of the CI-A2A2-A cable are terminated with 44-way D plugs. One end should be plugged into the the 44-way D socket (SKB) on the rear of the UV610-DL6480 card. The other end should be plugged into the 44-way D socket (SKB) on the Panel Interface Unit (UV6-3594-V0TB-B2K1-A).

The Panel Interface Unit is fitted with a cable from SK8 terminated in a miniature Molex connector to connect into the LCD panel via CN1. This connector is polarised and will fit in only one direction so do not try to force it. It should slide easily into the LCD connector.

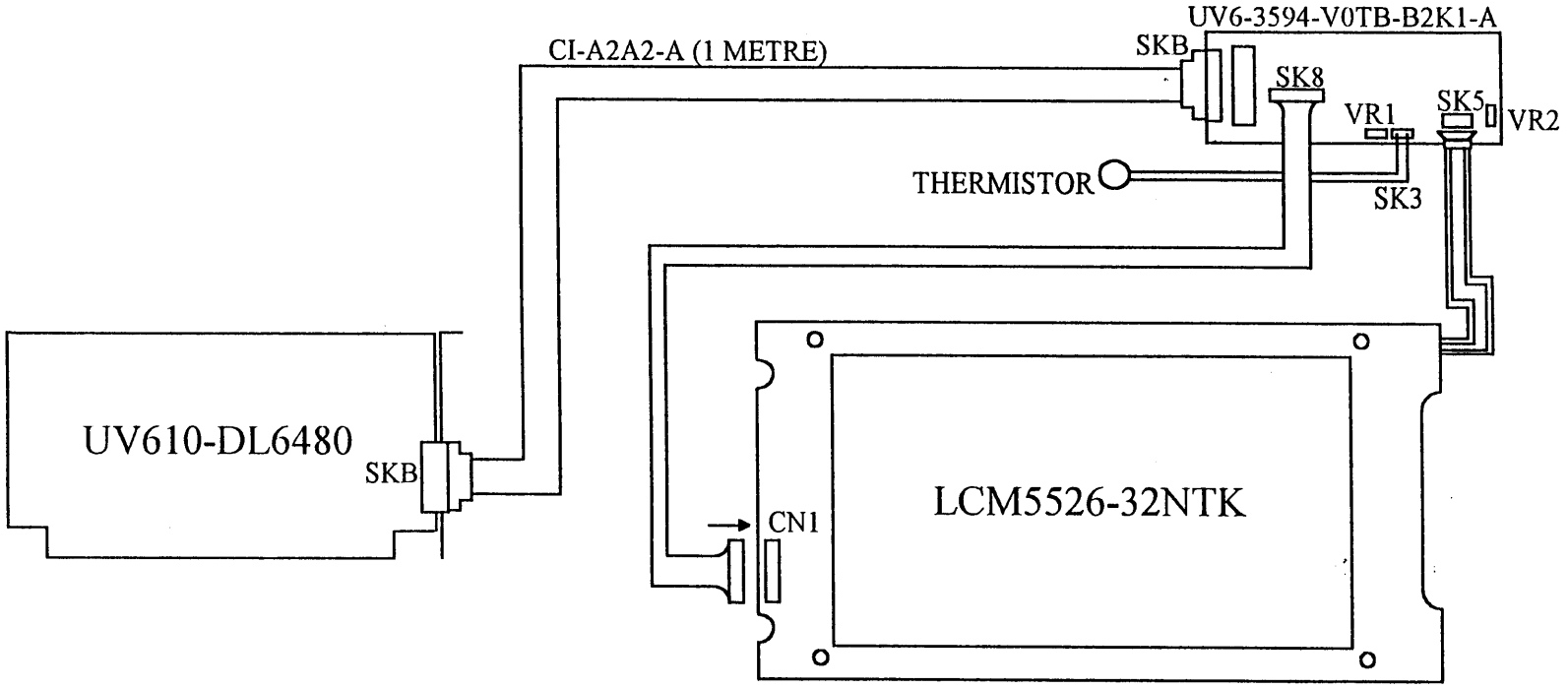
The Panel Interface Unit has an onboard inverter for driving the backlight of the LCD. The LCD backlight connector should be connected to SK5 on the Panel Interface Unit. This connector is not polarised, however ensure that the connector is fully home and not twisted which could allow a pin to miss the connector socket. To ease possible mounting positions for the Panel Interface Unit, the backlight connections may need to be slightly extended. Note that to avoid backlight dimming or strike problems the backlight connections MUST NOT be extended by more than 150mm and high-voltage Silicon sleeved cable MUST be used. Refer to Pages 4 and 5 for dimensional drawings of the Panel Interface Unit and the LCD.

IMPORTANT:- The inverter circuit generates high voltages and the Panel Interface Unit should not be handled while the power is on. It should also be positioned ensuring that no part of it could possibly touch the LCD, the housing or any other circuitry.

The Panel Interface Unit also contains circuitry to adjust the contrast voltage to the LCD via an onboard pot (VR1) and backlight brightness via another onboard pot (VR2).

In addition, the Panel Interface Unit contains a temperature compensation circuit which is required by the LCD and allows it to be used over its temperature range without constant adjustment of the contrast being required. A thermistor is provided on a flying lead which should be affixed directly to the LCD panel. The body and legs of the thermistor are insulated and should not be allowed to touch the LCD panel or metalwork. An easy method of fixing it is to stick the thermistor to the rear of the LCD (ideally in the middle, away from the backlight hotspots) with insulating tape, one strip above and one strip below the thermistor.

Once all the interconnections have been made the PC may be powered ON. After a few seconds the LCD backlight should come on and the standard PC Boot messages should be displayed on the LCD. VR1 on the Panel Interface Unit will need to be adjusted for preferred contrast. Adjust VR2 to set the required brightness of the backlight.



TRIK-Y013D -8019-2

LCM5526-32NTK	- MONO VGA
UV610-DL6480	- PC ISA DRIVER CARD
UV6-3594-V0TB-B2K1-A	- PANEL INTERFACE UNIT
CI-A2A2-A	- 1m CABLE
TRIDM 610/615	- DISK + MANUAL

NOTES
VR1 - CONTRAST
VR2 - BRIGHTNESS
FIX THERMISTOR TO REAR OF LCD
WITH INSULATED TAPE

NOT TO SCALE

ISSUE	1	2	3
DATE	24/10/96		
DRAWN	FM		
APPVD			

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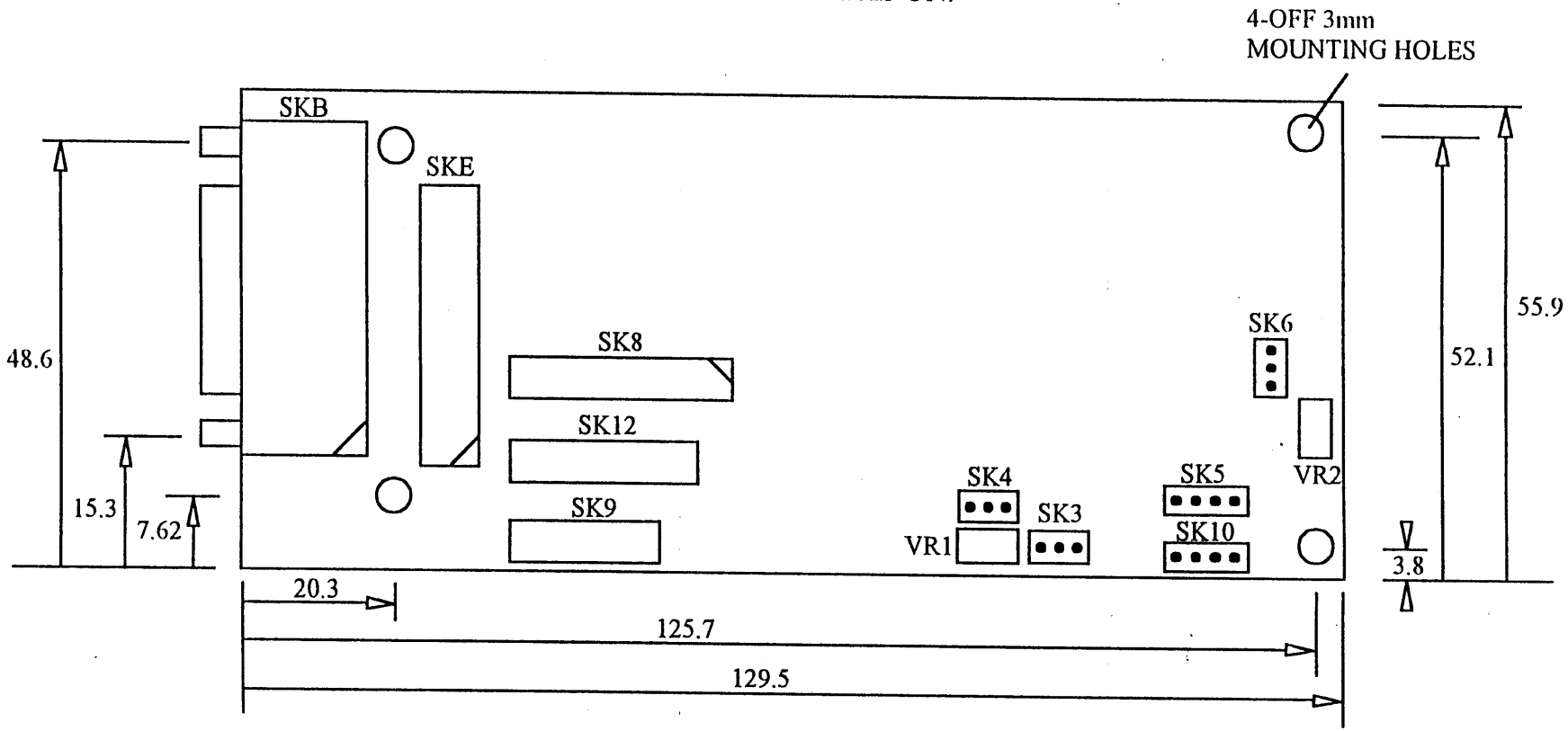
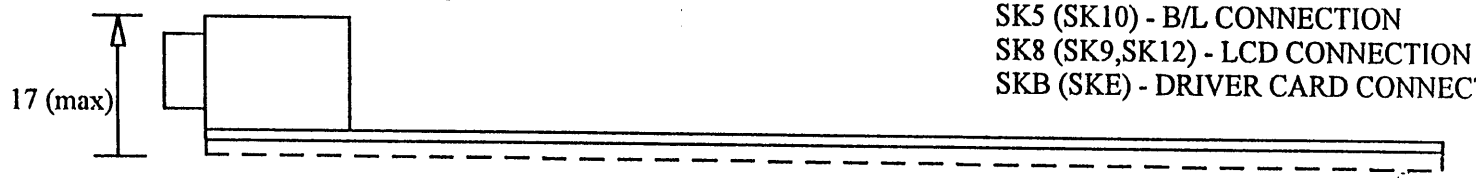
TRIK-Y033D-8019-2
SANYO 10.4" VGA MONO KIT

WARNING:- THIS MODULE GENERATES HIGH VOLTAGES,
DO NOT TOUCH WHEN POWER IS ON.



VR1 - CONTRAST (SK4, EXT.ADJUST OPTION
VR2 - BRIGHTNESS (SK6, EXT. ADJUST OPTION)
SK3 - THERMISTOR OPTION
SK5 (SK10) - B/L CONNECTION
SK8 (SK9,SK12) - LCD CONNECTION
SKB (SKE) - DRIVER CARD CONNECTION



ALL DIMS. IN mm

ISSUE	1	2	3
DATE	9/10/96		
DRAWN	FM		
APPVD			

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UV 6-3594
PANEL INTERFACE UNIT
(FOR MONO LCD'S)

Outer Dimensions