
RC900

CON451 Main Monitor Adapter

Hardware reference manual

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RC Computer

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Abstract:

This paper contains a hardware description of the CON451 (MF340), which is a plug in card for the RC940 monitor, when this is used as console on the RC950 system unit.

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1. GENERAL INFORMATION

1.1 Short Description

CON451 is a plug in board that fits in the bottom of an Rc940 Color monitor. CON451 functions as an interconnect board for the signals between RC950 CPU, RC940 Monitor, RC930 Keyboard and a Mouse.

The monitor receives TTL Video- and Sync-Signals from the RC950 CPU and analog Brightness and Contrast signals from two Duty cycle to analog voltage level converters (low pass filters).

The monitor delivers DC Power (+5V, +12V) for the Mouse connector, Keyboard connector and the Brightness/Contrast signal buffer.

The Keyboard CLOCK and Data signals are passed on to the CPU and the Keyboard receives +9V supply voltage from CPU or monitor.

1.2 Specifications

1.2.1 Performance Specifications

- 32 pin DIN Connector to Rc940.
- 25 pin D-connector for CPU-Cable.
- 6 pin Telephone connector for RC930 Keyboard.
- 4 pin (in 6 pin connector) Telephone Connector with +5V supply voltage for mouse.

1.2.2 Environmental Specifications

Operating Temperature : 10°C to 40°C
Relative Humidity : 20% to 85% (non condensing)
Max wet-bulb temperature: 30°C
Altitude : 0-2000 m

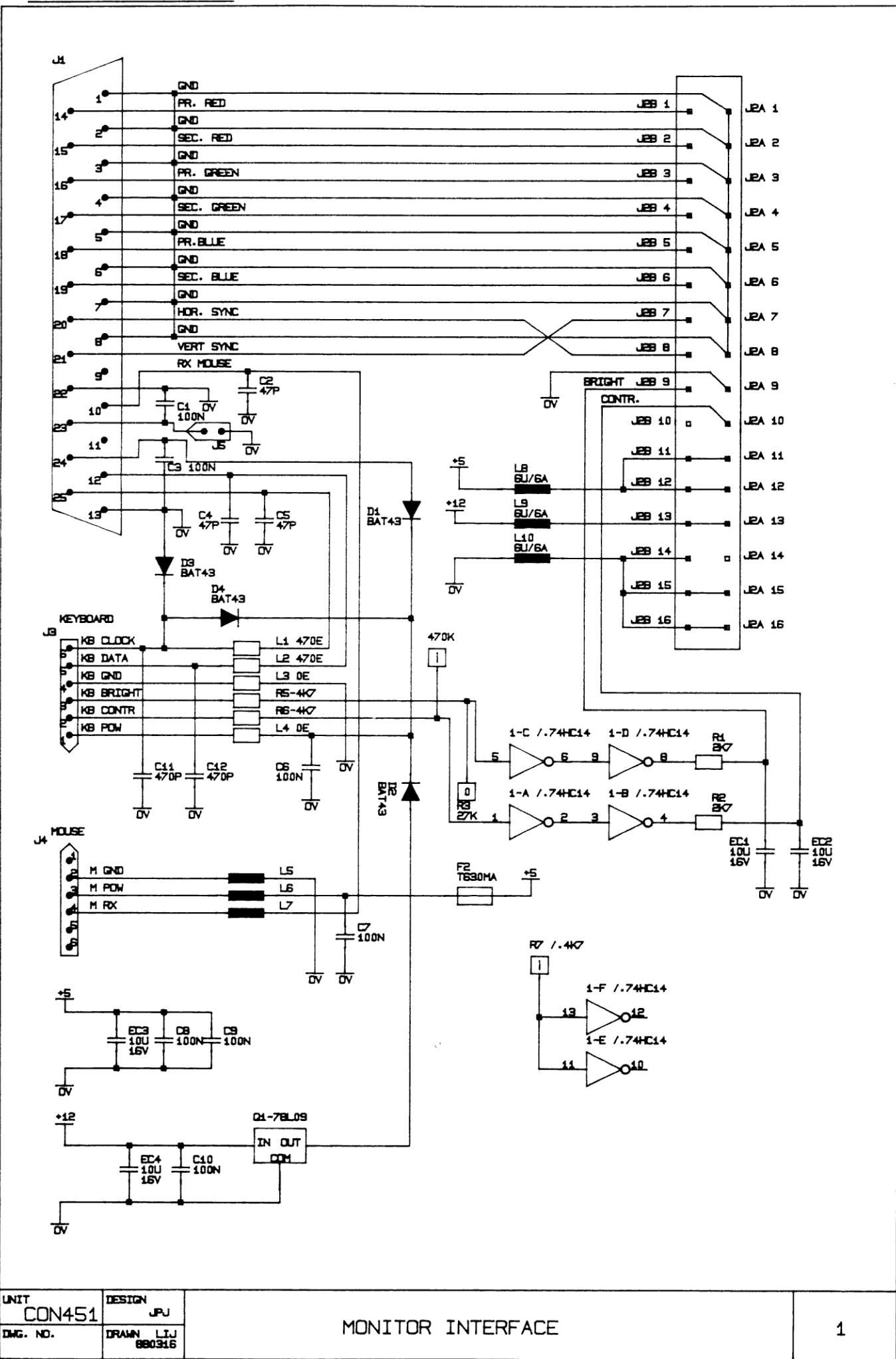
1.2.3 Physical Specifications

Width : 283 mm
Length : 317 mm
Height : 30 mm
Weight : 300 g

1.2.4 Power Specifications

Power Dissipation: 1.2 W max.
+5V supply : +5V +5%, max 100 mA
+12V supply : +12V +10%, max 60 mA
-12V supply : not used.

2. LOGIC DIAGRAM



UNIT CON451	DESIGN JPJ	MONITOR INTERFACE	1
DMG. NO.	DRAWN LJL 880316		

3. ASSEMBLY DRAWING

