

---

**RC900**

---

**CON451 Main Monitor Adapter**

---

**Hardware reference manual**

---

---

**PN: 99111116**

---

**Keywords:**

CON451, MF340, RC940, RC900

**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.

**Date:**

March 1988

**Author:**

Jens Peter Jakobsen

**Copyright © 1988, Regnecentralen a · s/RC Computer a · s**  
**Printed by Regnecentralen a · s, Copenhagen**

---

Users of this manual are cautioned that the specifications contained herein are subject to change by RC at any time without prior notice. RC is not responsible for typographical or arithmetic errors which may appear in this manual and shall not be responsible for any damages caused by reliance on any of the materials presented.

**TABLE OF CONTENTS****PAGE**

1. GENERAL INFORMATION .....	1
1.1 Short Description .....	1
1.2 Specifications .....	1
1.2.1 Performance Specifications .....	1
1.2.2 Environmental Specifications .....	2
1.2.3 Physical Specifications .....	2
1.2.4 Power Specifications .....	2
2. LOGIC DIAGRAM .....	3
3. ASSEMBLY DRAWING .....	4



## 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

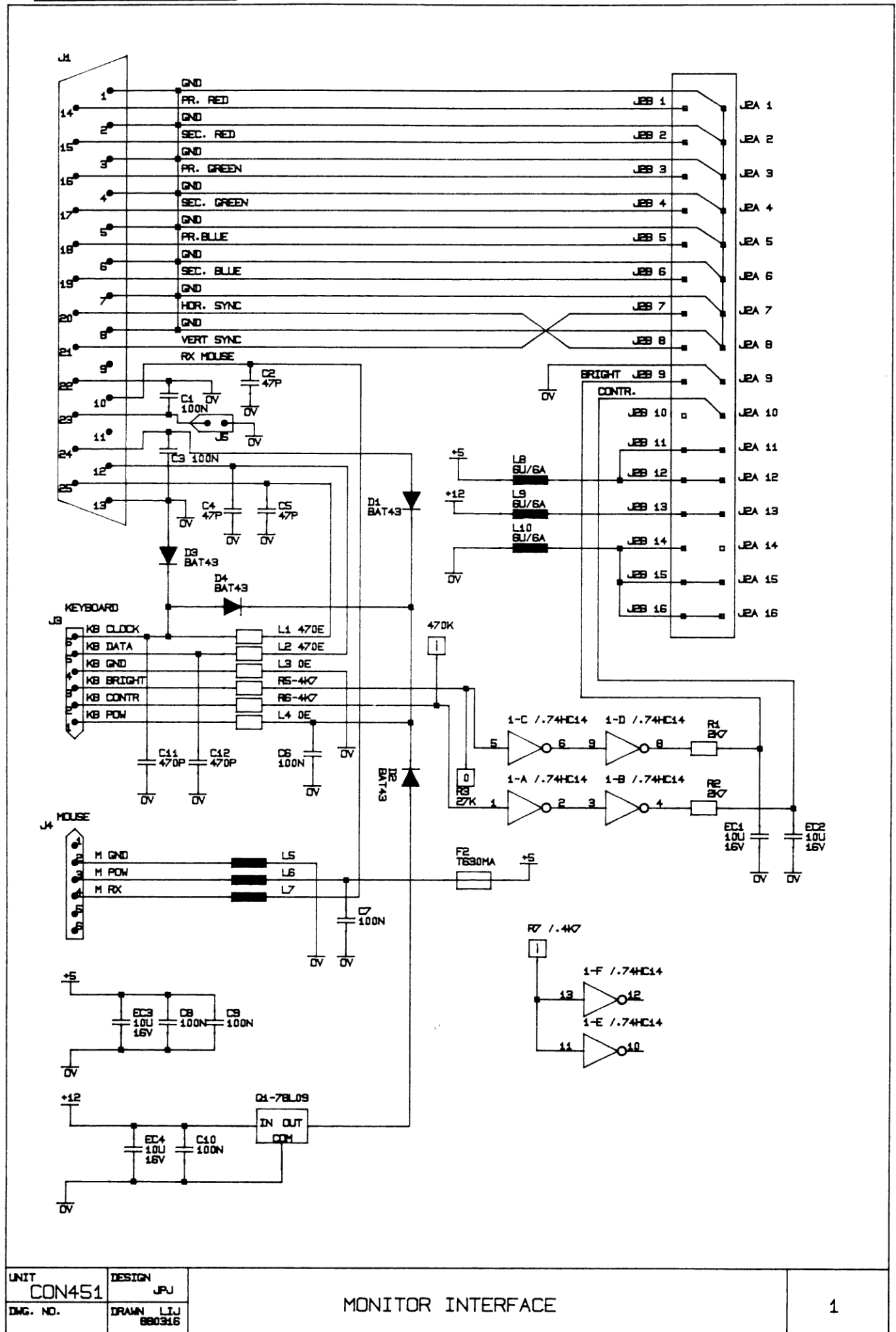
### 1.2.3 Physical Specifications

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  $\pm$ 5%, max 100 mA  
+12V supply : +12V  $\pm$ 10%, max 60 mA  
-12V supply : not used.

## 2. LOGIC DIAGRAM



## 3. ASSEMBLY DRAWING

