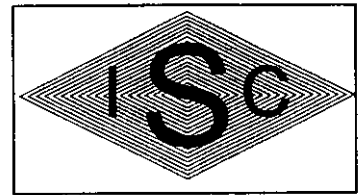# User Manual

for
Infrared Adapter AD35

July '98

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, persuant to part 15 of FCC Rules. These limits are disigned to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate frequency to radio communications. However there is no guarantee that interferences will not occur in a particular installation. If this equipment does harmful interference to radio or television reception, hich can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the folloing measures.

■ Reorient or relocate the receiving antenna.

■ Increase the separation between the equipment and receiver.

■ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

■ Consult the dealer or an experienced radio/TV technician for help.
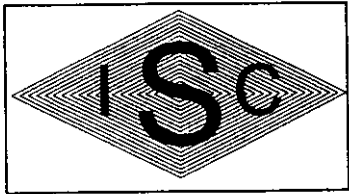
Contents
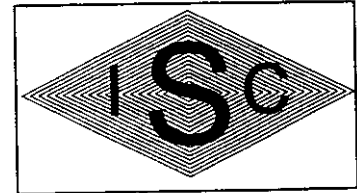
I. Introduction

The HRF-35 communicates with the host computer via a infrared serial interface. If your computer does not provide a infrared interface you can use our Infrared-Adapter AD35. Another use the AD35 is to connect the HRF-35 to a modem. This feature is used when your „Control-Center" is able to communicate via telephone system with the HRF-35.

II. Discription

The AD-35 is supplied with power through the data- and handshake lines of the PC. Due to this fact it will only work if the interface provides +/-12V logical levels.
The AD-35 has got two 25 pol.Sub-D connectors on each side. The connector signed with „PC" connect the AD35 with the host.
The other side is labled with „MODEM". This connector is pluged into a modem if you want to transmit data via telephon system.
On one thin side of the housing are two openings for the infrared light transmission.
This side marked with an arrow has to point towards the front of the HRF-35.

EAGLE Version 3.02 Copyright (c) 1988,94 CadSoft

Partlist exported from IRDASIO3.BRD at 16.02.1998 18:09:43

Part	Value	Package	Library	Position (inch)
C1	10uF	7243	SMD	(0.86742 0.17948)
C2	1uF	1206-C	SMD	(0.4252 1.28184)
C3	220p	0603-C	TAG	(0.27303 0.39326)
C4	100nF	1206-C	SMD	(0.42219 1.20147)
C5	1nF	0603-C	TAG	(0.5468 0.94832)
C8	100n	1206-C	SMD	(0.45896 0.13947)
C9	100n	1206-C	SMD	(0.72935 0.14252)
C28	10uF	7243	SMD	(0.33169 0.2061)
C31	1uF	7243	SMD	(1.0688 0.18533)
C50	100nF	1206-C	SMD	(0.86496 0.70251)
CON1	DB25M	SUB25	TAG	(1.50551 -0.00827)
CON2	DB25M	SUB25	TAG	(0.05039 1.39134)
Q1	RESONAT	RESONAT	TAG	(0.73622 0.62618)
R1	100E	1206	SMD	(0.3285 0.95773)
R2	1k	0603	SMD	(1.2751 0.95453)
R3	100E	1206	SMD	(0.38007 1.10005)
R4	15E	R-7,5	DISCRETE	(1.27628 1.17977)
R5	100K	0603	SMD	(0.45094 0.98189)
R6	100E	1206	SMD	(0.67726 0.86772)
R7	1k	0603	SMD	(1.31097 0.80482)
R8	1k	0603	SMD	(1.29754 0.35337)
R9	100E	1206	SMD	(0.67726 0.94483)
R13	100k	0603	SMD	(1.08016 0.72018)
R14	1K	0603	SMD	(1.0375 0.9625)
R16	100k	0603	SMD	(0.27146 0.54419)
R17	100k	0603	SMD	(0.33834 0.44326)
U1	IRDA	IRDA	TAG	(0.99606 1.08071)
U2	PIC508	SC-8L200	TAG	(0.87008 0.58661)
U3	RICOH_SV	SOT-87	TAG	(0.59715 0.17234)
U4	TL062P	SO-8	SMD-IC	(0.53076 0.55024)
V1	BAV70	SOT-23	OLDSMD	(1.22884 0.18524)
V2	BAV99	SOT-23	OLDSMD	(0.48342 0.77185)
V3	BAT46	1206	SMD	(0.84375 0.90625)
V4	BAV99	SOT-23	OLDSMD	(0.97653 0.69911)
V5	BAV70	SOT-23	OLDSMD	(0.31772 0.70335)
V6	BAV70	SOT-23	OLDSMD	(1.14804 0.96762)
V7	BAV99	SOT-23	SMD	(0.50625 0.29375)