Pocket Quick Reference For the

TOSHIBA

RBC-RASNC

RAS Network Interface

The **TOSHIBA** / Microtrol RBC-RASNC is a Replacement PCB for the
TOSHIBA "MIRAI" range of indoor units, RAS##BKV-E, allowing for the RAS system to be integrated into a "Toshiba" Central Control Device.

The new interface replaces the factory fitted IR Receiver PCB, referred to on the wiring diagram as "Wireless Unit Assembly, WP-033", when installed the "Mirai" unit will have local IR control as well as central control, via Toshiba's central Control Devices, BMS-CM/SM-1280## - 128 zone central remote controller, RBC-TBPTS – 64 zone colour Smart Touch Screen Central Remote, plus, many other devices.

PLEASE NOTE: This interface will **ONLY** work with the "MIRAI" RAS-##BKV-E

Installation Instructions.

ISOLATE THE UNIT.

1) Carefully remove the existing IR receiver PCB in its plastic housing, separate the housing and remove the PCB, disconnect the 8-way white connector (CN10)
2) On the new interface plug in both the 8-way connector (J2) and the supplied 2 pin TCC-Link connector (J1)
3) Refit the new interface into the plastic housing removed earlier, re-assemble the housing ensuring that both leads exit through the provided side holes.
4) Fit the 2-way TCC-Link terminal block (U3/U4) into the space adjacent to the main supply connector, secure with the supplied screws.

Setting the bit switches:

S1-1 – End of line resister. On = 100-ohm terminator connected across the TCC-Link.
Off = No terminal resister, (Default.)
Note: Only one terminal resister should be enabled per network.

S1-2 - Auto Restart. On = Auto Restart.
Off = No Auto Restart. (Default.)
Note: S1-2 Overrides the normal auto restart feature.

S1-3 to S1-8 – Central Address. (Default all OFF, Central address 1)

Toshiba RAS Unit Address Setting												
Address	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8	Address	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
1	0	0	0	0	0	0	33	1	0	0	0	0	0
2	0	0	0	0	0	1	34	1	0	0	0	0	1
3	0	0	0	0	1	0	35	1	0	0	0	1	0
4	0	0	0	0	1	1	36	1	0	0	0	1	1
5	0	0	0	1	0	0	37	1	0	0	1	0	0
6	0	0	0	1	0	1	38	1	0	0	1	0	1
7	0	0	0	1	1	0	39	1	0	0	1	1	0
8	0	0	0	1	1	1	40	1	0	0	1	1	1
9	0	0	1	0	0	0	41	1	0	1	0	0	0
10	0	0	1	0	0	1	42	1	0	1	0	0	1
11	0	0	1	0	1	0	43	1	0	1	0	1	0
12	0	0	1	0	1	1	44	1	0	1	0	1	1
13	0	0	1	1	0	0	45	1	0	1	1	0	0
14	0	0	1	1	0	1	46	1	0	1	1	0	1
15	0	0	1	1	1	0	47	1	0	1	1	1	0
16	0	0	1	1	1	1	48	1	0	1	1	1	1
17	0	1	0	0	0	0	49	1	1	0	0	0	0
18	0	1	0	0	0	1	50	1	1	0	0	0	1
19	0	1	0	0	1	0	51	1	1	0	0	1	0
20	0	1	0	0	1	1	52	1	1	0	0	1	1
21	0	1	0	1	0	0	53	1	1	0	1	0	0
22	0	1	0	1	0	1	54	1	1	0	1	0	1
23	0	1	0	1	1	0	55	1	1	0	1	1	0
24	0	1	0	1	1	1	56	1	1	0	1	1	1
25	0	1	1	0	0	0	57	1	1	1	0	0	0
26	0	1	1	0	0	1	58	1	1	1	0	0	1
27	0	1	1	0	1	0	59	1	1	1	0	1	0
28	0	1	1	0	1	1	60	1	1	1	0	1	1
29	0	1	1	1	0	0	61	1	1	1	1	0	0
30	0	1	1	1	0	1	62	1	1	1	1	0	1
31	0	1	1	1	1	0	63	1	1	1	1	1	0
32	0	1	1	1	1	1	64	1	1	1	1	1	1

Key: 0 = OFF, 1 = ON.

The address set by S1-3 to S1-8 is used for both the central TCC-Link address and the Unit address. The line address (I.e. Outdoor unit) for the RAS Interface is always 30 and cannot be altered.

Operation.

With the new PCB installed the IR hand held remote, (Supplied with the indoor unit.), will operate as normal.

When the unit is connected to a Black Pear Interface (BMS) or to a Smart Touch Controller (Colour Touch Screen) it will be possible to view and control the following;
Return Air (TA), Setpoint, Mode and Fan Speed.
An error resulting in the LEDS, (On the front of the indoor unit), flashing will be reported as a P30 fault.
Louvre position is NOT controllable and will either appear as "Hold" or be absent.

Contact details:

Cool Designs Ltd Technical Support
07590 775510
Monday – Friday 07.30 to 19.30

Email: support@cooldesignsltd.co.uk
Web site: www.cdlweb.info

Toshiba Air Conditioning
24/7 technical support
0870 843 0333 (Option 7)

Text back service
07624 803 017
(Type fault code in lower case no spaces)

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