

RAS-M Interface for Toshiba TCC-Link

Installation and User Guide



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1. Important Information

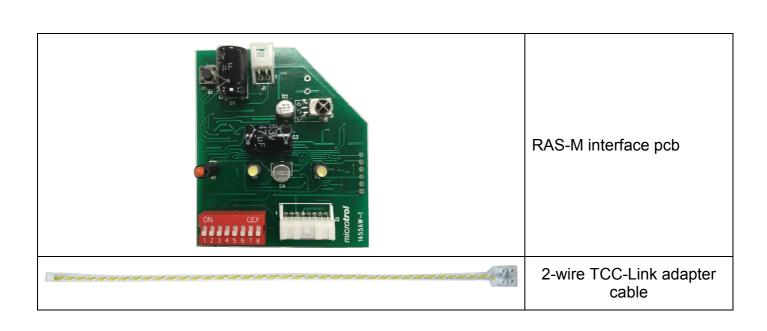
- All electrical work should be carried out by a competent person and wiring must be in accordance with the national electrical installation regulations.
- > Ensure that installation work is done correctly using the information contained in this manual.
- Make all connections securely so that any outside forces acting on the cables are not applied to the terminals.
- Never modify or repair the Black Pear interface by yourself. Any attempt to do so will void the warranty.
- > To dispose of this product, consult your dealer.

2. Product Overview

The Black Pear RAS-M interface provides a TCC-Link connection for new style Toshiba MIRAI air-conditioner units eg. RAS-07BKVG-E.

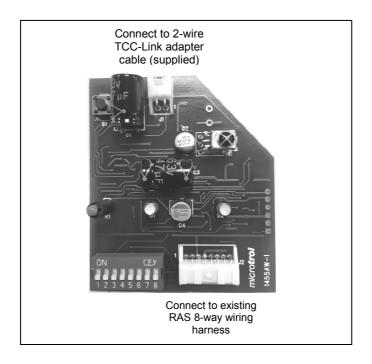
It replaces the existing air-conditioner infra-red PCB but still allows manual control using the I/R remote controller.

3. Supplied Parts



4. Connection Details

All electrical work should be carried out by a competent person and wiring must be in accordance with the national electrical installation regulations.



5.Installation

The RAS-M interface replaces the existing IR receiver pcb in the RAS unit.

ISOLATE THE RAS UNIT BEFORE REMOVING THE COVER.

- 1) Carefully remove the existing board in its plastic housing.
- 2) Separate the housing and remove the board, unplugging the 8-way white connector CN10.
- 3) Take the RAS interface and plug in both the 8-way connector (J2) and the supplied 2 pin TCC-Link connector (J1).
- 4) Fit the RAS interface into the plastic housing and re-assemble the housing ensuring that both leads exit through the provided side holes.
- 5) Fit the 2 way TCC-Link terminal block into the space adjacent to the main supply connector, securing it with the screw provided.

6. Configuration

6.1 S1 Bitswitch Function

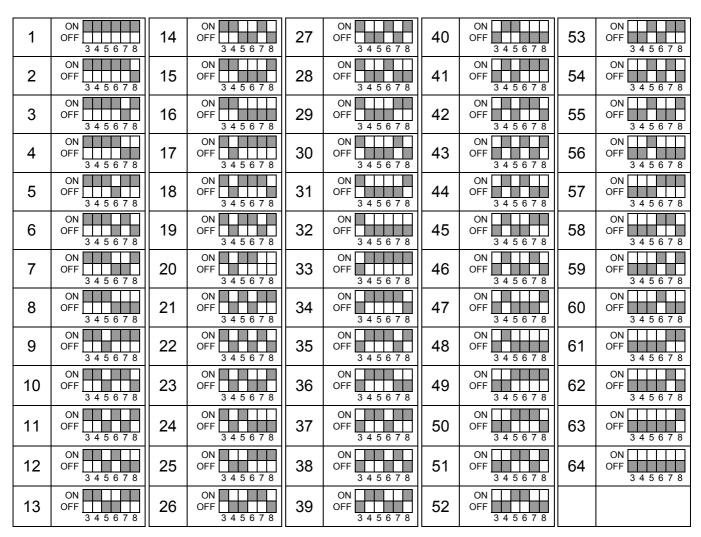
S1-1 On = 100 ohm terminator connected across the TCC-Link lines
Off = No terminating resistor.

Note:- Only one terminating resistor should be enabled per network

S1-2 On = Auto Restart
Off = Start in the OFF condition

Note:- S1-2 overrides the normal auto restart feature

S1-3 to S1-8 Set the address of the unit; S1-3 = MSB : S1-8 = LSB The address is the binary value of S1-3 to S1-8 plus 1. (all switches off = 1, all switches on = 64)



The address set by S1-3 to S1-8 is used for both the central TCC-Link address and also for the Unit address in the Line/Unit addressing mode.

The Line address for the RAS-M interface is always 30.

Appendix A : Document Revision History

Date	Document Ver	Firmware Ver	Ву	Comments
19/01/2018	v1.00	v1.13	mcb	First version converted from preliminary instructions to booklet.
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