

Antenna Information

The antenna of the product is a chip antenna assembled on the LED sub-board which is located under the top cap of the device. The antenna cannot be removed or replaced without opening the external mechanical structure. The mechanical structure is secured with industrial adhesives so it can only be opened by company trained service personnel.

The antenna part number is MAF95029 from Laird Technologies. The model number is WIC2452-A. It is a 2.4GHz and 5.8GHz Chip Antenna for WiFi and Bluetooth.

The maximum gain of the antenna is 3dBi from 4.9 – 6.0GHz.

The connection to the antenna on the LED board from the main carrier board is via a 200mm long, 50 Ohm cable from Johnson / Emerson Connectivity Solutions. The part number is 415-0085-200. The cable loss is measured at 2dB from the WiFi module on the carrier board to the antenna board.

Both ends of the cable are connected to the boards with UFL connectors from Hirose Electric Co Ltd. The part number is U.FL-R-SMT(10).

