

ICON RESEARCH LTD

WMS-30 Technical Description

General Description

The WMS-30 is a self contained single-band (2.4GHz) 802.11b/g/n radio module based on the Qualcomm Atheros AR6103. The format of the module is standard SDIO operating with a 1 or 4-bit interface. The device is designed for low power embedded applications.

Antenna Connection

The WMS-30 incorporates a single MMCX antenna connector onto which can be connected any omnidirectional antenna with a maximum gain of 5dBi. The device is intended to be professionally installed within the host environment.

Operation

The device operates from a standard SDIO connector and is powered from the 3.3Vdc power pin on the SDIO connector. An on-board 1.8V power regulator provides power for the RF circuitry. The device can be controlled by embedded software in the host device, or by windows and linux drivers when operating systems are used.

The power and calibration settings of the device are held in .bin file which is loaded by the driver or embedded software in the host device. Two .bin files are available, one to comply with North American power transmission levels and the other to comply with European levels.

Rev A

29/05/14