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Independent Communications Authority of South Africa

General Notice

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GENERAL NOTICE

NOTICE 1597 OF 2009



INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA

ICASA's DECISION ON THE USE OF THE 5725 – 5850MHz ("the 5.8GHz band)

The Independent Communications Authority of South Africa ("the Authority") hereby makes known its decision to allow use of higher transmit powers in the 5.8GHz band. The use of the 5.8GHz shall be in the manner stated in the attached Annex.

ANNEX

The band 5725-5875 MHz is designated as an ISM band through ITU-R footnote 5.150. Deployment of broadband fixed wireless access (BFWA) services in the 5.8GHz band shall be on no-protection-no-interference basis. To protect the C-band uplink transmissions BFWA will only be allowed in 5725-5850 MHz.

The restrictions in the Table must be adhered to:

Table

Frequency range	Power level	Modulation and channel bandwidth	Other
5.725-5.850 GHz	<ul style="list-style-type: none"> • A maximum of 4 watts e.i.r.p. • A maximum of 1 watt transmitter power output • A maximum transmitter output power spectral density of 8dBm in any 3kHz band 	<ul style="list-style-type: none"> • Digital modulation only • Nominal bandwidth of transmissions must not be less than 1MHz 	<ul style="list-style-type: none"> • Fixed point-to-multipoint systems and point-to-point links • In any 100kHz outside the band, the e.i.r.p. shall be at least 30dB below the 100kHz within the band that contains the highest level of desired power.
5.725-5.850 GHz	<ul style="list-style-type: none"> • A maximum of 200 watts e.i.r.p. • A maximum of 1 watt transmitter power output • A maximum transmitter output power spectral density of 8dBm in any 3kHz band 	<ul style="list-style-type: none"> • Digital modulation only • Nominal bandwidth of transmissions must not be less than 1MHz 	<ul style="list-style-type: none"> • Fixed point-to-point links only • Point-to-multipoint systems, omnidirectional applications, and multiple co-located transmitters transmitting the same information are not permitted (see note 1) • In any 100kHz outside the band, the e.i.r.p. shall be at least 30dB below the 100kHz within the band that contains the highest level of desired power. <p><i>Note 1: Transmission towards the common node of a point-to-multipoint system is regarded as point-to-point mode.</i></p>