BreezeACCESS® Family Country Codes

Reference Guide

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Document History

Topic	Description	Date Issued
India 5.8 GHz, Germany 5.8 GHz, ETSI-F 5.4 GHz	Added new Country Codes	November 2007
ETSI 5.4 GHz	Values for Regulation Max Tx Power at Antenna Port and Regulation Max EIRP has been corrected to 27 dBm	November 2007
Universal, No Encryption 5.4 GHz	Corrected values for Regulations Max EIRP (38 dBm for AU, 49 dBm for SU, RB, BU)	November 2007
10 MHz bandwidth in BreezeNET B	Added new Sub Band (Sub Band 3) for all 2.4 GHz, 5.2 GHz, 5.3 GHz, 5.4 GHz and 5.8 GHz Country Codes	November 2007
Universal (Swiss) 4.9 GHz	Corrected – BreezeNET B is not available in the 4.9 GHz band	November 2007
Universal 2.4 GHz, Cuba 2.4 GHz	Corrected Sub Bands numbers (1 for 10 MHz bandwidth, 2 for 40 MHz bandwidth, 3 for 10 MHz bandwidth)	November 2007
FCC 900 MHz	New Country Code	April 2008
SU-EZ	Inserted country codes for SU-EZ	November 2008
Brazil 4.9 GHz	Inserted country codes for VL	April 2009
SU-L	Adding SU-L country codes specifications	June 2009
SU-L	Updated specifications and added country codes for Brazil and India	December 2009

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Introduction

Some operational parameters as well as several features of BreezeACCESS VL, AU-EZ, SU-EZ and BreezeNET B systems may be limited by the applicable local radio regulations. These regulations and the impact they have on the parameters and features of BreezeACCESS VL, AU-EZ, SU-EZ and BreezeNET B differ significantly among countries. To ensure compliance with various different regulations, BreezeACCESS VL, AU-EZ, SU-EZ and BreezeNET B units are delivered with a Country Code that depends on the country in which they will be used.

The list of available Country Codes is continuously growing. The following sections provide detailed on the Country Codes and the Sub Bands supported by each Country Codes at the time of this publication. For each Country Code, there is also information on the maximum Tx power supported by the applicable hardware.

NOTE:

1. The Country Codes of new SW versions may include Sub Bands that were not included in previous versions. The available Sub Bands are not updated automatically upon upgrading the unit, and the new Country Code should be loaded separately to make the new Sub Band(s) available.
2. After loading a Country Code whose parameters has been updated, the new values will take effect only after activating the Re-apply Country Code Values option.

The Country Code defines the following parameters:

Security Parameters

Certain security features may not be supported in devices sent to some countries due to restrictions on the sale of security technologies. The applicable parameters are:

- **Data Encryption Support**: Indicates whether data encryption is supported for the applicable country.
- **AES Encryption Support**: Indicates whether data encryption using AES is supported for the applicable country. Note that AU-EZ units do not currently support AES based encryption.
- **Authentication Encryption Support**: Indicates whether encryption of the authentication process is supported for the applicable country.

Sub Band Parameters

Each Country Code may include one or more Sub Bands. Where more than one Sub Band is available, the Sub Bands differ mainly in the available bandwidth and/or frequencies. The Sub Band parameters are:

- **Frequencies**
- **Bandwidth**: The channel's bandwidth. If more than one bandwidth is allowed, than each bandwidth is associated with a different sub-band, since the bandwidth may affect the available frequencies.
- **Regulation Max Tx Power at Antenna Port**: The maximum transmit power allowed at the antenna port of the unit.
- **Regulation Max EIRP**: The maximum allowed EIRP (Effective Isotropic Radiated Power).
- **Minimum Modulation Level**: The lowest allowed modulation level
- **Maximum Modulation Level**: The highest allowed modulation level
- **Burst Mode**: Indicates whether Burst Mode operation is allowed.
- **Maximum Burst Duration**: If Burst Mode is allowed, this parameter displays the upper limit for the Maximum Burst Duration.
- **DFS Option**: Indicates whether the DFS (Dynamic Frequency Selection) mechanism for identification and avoidance of channels with radar activity should be used.
- **Minimum HW Revision Support**: The minimum HW revision required for supporting a Sub Band.

NOTE: Starting on SW Version 4.5, HW Revision A is no longer supported by the software. The information provided for units with HW Revision A is applicable only for units with previous SW versions.

Maximum Tx Power

The maximum value of the Transmit Power Parameter depends on several unit properties and parameters:

- The HW revision of the unit
- The modulation level

- The Maximum Allowed Tx Power as defined for the applicable Sub Band.
- The Maximum EIRP as defined for the applicable Sub Band, together with the value of the Antenna Gain. In certain countries the Maximum EIRP of some equipment types cannot exceed a certain value. In these cases the Transmit Power cannot exceed the value of (Maximum EIRP – Antenna Gain).
- The Maximum Tx Power parameter (in SU/RB only)

FCC 900 MHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 3	27
4	26
5	24
6	22
7	20
8	19

General Country Parameters:

Parameter	Value/Option
Country Code	900
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled

Sub Band 1 – BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	F
Center Frequencies	905-925 MHz in 0.5 MHz* steps
Bandwidth	5 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	36 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

* Using HW Revision F with SW version 5.1.7. Starting with SW version 5.1.24, the channel step is 1 MHz for HW Revision F and later.

Australia 900 MHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 3	27
4	26
5	24
6	22
7	20
8	19

General Country Parameters:

Parameter	Value/Option
Country Code	901
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled

Sub Band 1 – BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	F
Center Frequencies	918-925 MHz in 1 MHz steps
Bandwidth	5 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	30 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Brazil 4.9 GHz

(Applicable only for BreezeACCESS VL AUs and SUs)

General Country Parameters:

Parameter	Value/Option
Country Code	490
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled

Sub Band 1:

Parameter	Value/Option
Minimum HW Revision Support	C
HW Type	HP
Frequency Band	4940-4990 MHz
Center Frequencies	4950, 4955, 4960, 4965, 4970 MHz
Step	5 MHz
Bandwidth	20 MHz
HW Tx Power Limitation – modulations 1-5	16 dBm
HW Tx Power Limitation – modulation 6	16 dBm
HW Tx Power Limitation – modulation 7	16 dBm
HW Tx Power Limitation – modulation 8	16 dBm
Regulation Max Tx Power at Antenna Port	20 dBm
Regulation Max EIRP	29 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
Regulation Tx Power Maximum Spectral Density	17 dBm/MHz
DFS Option	Not Supported

Sub Band 2:

Parameter	Value/Option
Minimum HW Revision Support	C
HW Type	HP
Frequency Band	4940-4990 MHz
Center Frequencies	4945, 4950, 4955, 4960, 4965, 4970, 4075 MHz
Step	5 MHz
Bandwidth	10 MHz
HW Tx Power Limitation – modulations 1-5	16 dBm
HW Tx Power Limitation – modulation 6	16 dBm
HW Tx Power Limitation – modulation 7	16 dBm
HW Tx Power Limitation – modulation 8	16 dBm
Regulation Max Tx Power at Antenna Port	17 dBm
Regulation Max EIRP	26 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
Regulation Tx Power Maximum Spectral Density	17 dBm/MHz
DFS Option	Not Supported

Japan 4.9 GHz (regular)

(Not Applicable for BreezeACCESS VL B&B links with high gain antennas)

HW limitations on maximum Tx power:

For all modulation levels:

SU-A	AU with 15 dBi Sector Antenna	AU with 9 dBi Omni Antenna
12 dBm	15 dBm	17 dBm*

* The default value of the Transmit Power parameter in the AU is 15 dBm.

General Country Parameters:

Parameter	Value/Option
Country Code	392
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled

Sub Band 1 – BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	4920, 4940, 4960, 4980, 5040, 5060, 5080 MHz
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	24 dBm
Regulation Max EIRP	34 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	4 milliseconds
DFS Option	Not Supported

Sub Band 2 – BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	4915,4920,4925,4935,4940, 4945, 5040,5045,5055 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	24 dBm
Regulation Max EIRP	34 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	4 milliseconds
DFS Option	Not Supported

Note:

In BreezeACCESS VL units operating in the 4.9 GHz Japan band (not B&B point-to-point) with a 10 MHz bandwidth, the following rules must be met for full compliance with regulations:

- When operating at 4945 MHz, the Transmit Power parameter in the AU should not be set to a value above 11 dBm. The Maximum Transmit Power of the SU should not be set to a value above 10 dBm.
- When operating at 5055 MHz, the Transmit Power parameter in the AU should not be set to a value above 13 dBm. The Maximum Transmit power of the SU should not be set to a value above 10 dBm.

This requirement, although not indicated in the certification document, is needed following the tests performed in the certification lab.

Japan 4.9 GHz (For B&B Links)

(Applicable only for BreezeACCESS VL B&B links with 25 dBi antennas)

HW limitations on maximum Tx power:

For all modulation levels: 9 dBm

General Country Parameters:

Parameter	Value/Option
Country Code	394
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled

Sub Band 1 – BreezeACCESS VL B&B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	4940, 4960, 4980, 5060, 5080 MHz
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	24 dBm
Regulation Max EIRP	34 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	4 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeACCESS VL B&B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	4920, 4925, 4935, 4940, 5040, 5045 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	24 dBm
Regulation Max EIRP	34 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	4 milliseconds
DFS Option	Not Supported

Universal (Swiss) 4.9 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	21
6	20
7	19
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	1090
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled

Sub Band 1 – BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	4910-5090 MHz in 5 MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 – BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	4905-5095 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Universal 5.2 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	21
6	20
7	19
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	1050
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies	HW Revision B, BreezeACCESS VL and BreezeNET B:	5160-5340 MHz in 10 MHz steps
	HW Revision C BreezeACCESS VL and AU-EZ	5160-5340 MHz in 5 MHz steps
	HW Revision C, BreezeNET B	5160-5340 MHz in 10 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 2 - BreezeNET B:

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies		5170-5330 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 2 - BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5155-5345 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	36 dBm
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 3 – BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5155-5345 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	36 dBm
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

FCC 5.3 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm), HW Revision B		Maximum Tx Power (dBm), HW Revision C
	AU	SU, BU, RB	All Units
1 – 5	18	13	15
6	17	12	15
7	16	11	15
8	14	9	14

General Country Parameters:

Parameter	Value/Option
Country Code	1023
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies	HW Revision B (BreezeACCESS VL and BreezeNET B)	5270-5320 MHz in 10 MHz steps
	BreezeACCESS VL and AU-EZ with HW Revision C	5270-5330 MHz in 5MHz steps
	BreezeNET B with HW Revision C	5270-5330 MHz in 10MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		24 dBm
Regulation Max EIRP		30 dBm
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Enabled by default)

Note: For full compliance with FCC regulations, the following requirements should be followed in units using a 20 MHz bandwidth:

1. In units HW Revision B, if you wish to include frequency channel 5270 MHz in the set of frequencies to be used, then the Transmit Power parameter in the AU/BU, and the Maximum Tx Power parameter in the SUs/RB, should not be set to a value above "17-Antenna Gain". If there is a need to use a higher value for these parameters, this frequency should not be used.
2. In units with HW Revision C, if you wish to include one or more of frequency channels 5270, 5275 and 5330 MHz in the set of frequencies to be used, then the Transmit Power parameter in the AU/BU, and the Maximum Tx Power parameter in the SUs/RB, should not be set to a value above "20-Antenna Gain". If there is a need to use a higher value for these parameters, this frequency should not be used.

Sub Band 2 - BreezeNET B:

Parameter		**Value/Option**
Minimum HW Revision Support		B
Center Frequencies	HW Revision B	5270-5310 MHz in 10 MHz steps
	HW Revision C	5290-5310 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		24 dBm
Regulation Max EIRP		30 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Enabled by default)

Note: For full compliance with FCC regulations, the following requirements should be followed in BreezeNET B units using a 40 MHz bandwidth:

1. In units with HW Revision B, frequency channels 5270 and 5280 MHz should not be used.

2. In units with HW rev C, if you wish to include frequency channel 5290 MHz in the set of frequencies to be used, then the Transmit Power parameter in the BU, and the Maximum Tx Power parameter in the RB, should not be set to a value above "25-Antenna Gain". If there is a need to use a higher value for these parameters, this frequency should not be used.

   If you wish to include frequency channel 5310 MHz in the set of frequencies to be used, then the Transmit Power parameter in the BU, and the Maximum Tx Power parameter in the RB, should not be set to a value above "29-Antenna Gain". If there is a need to use a higher value for these parameters, this frequency should not be used.

Sub Band 2 - BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5265-5335 MHz in 5MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	21 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Note: For full compliance with FCC regulation of units with HW rev C using a 10 MHz bandwidth, if you wish to include frequency channel 5265 MHz in the set of frequencies to be used, then the Transmit Power parameter in the AU, and the Maximum Tx Power parameter in the SUs, should not be set to a value above "25-Antenna Gain". If there is a need to use a higher value for these parameters, this frequency should not be used.

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5265-5335 MHz in 5MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	21 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Note: For full compliance with FCC regulation of units with HW rev C using a 10 MHz bandwidth, if you wish to include frequency channel 5265 MHz in the set of frequencies to be used, then the Transmit Power parameter in the BU, and the Maximum Tx Power parameter in the RB, should not be set to a value above “25-Antenna Gain”. If there is a need to use a higher value for these parameters, this frequency should not be used.

ETSI 5.4 GHz

HW Revision B - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)		
	AU	SU, BU, RB	RB-D, BU-D
1 – 5	18	13	10
6	17	12	9
7	16	11	8
8	14	9	6

HW Revision C - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	AU, SU-E	SU-A, SU-E-BS, BU, RB, RB-D, BU-D
1 – 5	21	9
6	20	9
7	19	9
8	17	9

HW Revision E - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	SU-A (new enclosure)	SU-I
1 – 5	10	21
6	10	20
7	10	19
8	10	17

General Country Parameters:

Parameter	Value/Option
Country Code	1010
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	B
Center Frequencies	5500 to 5700 MHz in 20 MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	30 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5495, 5500, 5505, 5515, 5520, 5525, 5535, 5540, 5545, 5555, 5560, 5565, 5575, 5580, 5585, 5595, 5600, 5605, 5615, 5620, 5625, 5635, 5640, 5645, 5655, 5660, 5665, 5675, 5680, 5685, 5695, 5700, 5705 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	27 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeNET B:

NOTE: Deployment is restricted to areas approved by the local regulatory administration.

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies	HW Revision B	5500 to 5640 MHz in 20 MHz steps
	HW Revision C	5500 to 5700 MHz in 20 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		30 dBm
Regulation Max EIRP		30 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Enabled by default)

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5495, 5500, 5505, 5515, 5520, 5525, 5535, 5540, 5545, 5555, 5560, 5565, 5575, 5580, 5585, 5595, 5600, 5605, 5615, 5620, 5625, 5635, 5640, 5645, 5655, 5660, 5665, 5675, 5680, 5685, 5695, 5700, 5705 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	27 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

ETSI-F 5.4 GHz

HW Revision C - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	AU, SU-E	SU-A, SU-E-BS, BU, RB, RB-D, BU-D
1 – 5	21	9
6	20	9
7	19	9
8	17	9

HW Revision E - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	SU-A (new enclosure)	SU-I
1 – 5	10	21
6	10	20
7	10	19
8	10	17

General Country Parameters:

Parameter	Value/Option
Country Code	1014
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5500-5580, 5660-5700 MHz in 20 MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	24 dBm
Regulation Max EIRP	30 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5495, 5500, 5505, 5515, 5520, 5525, 5535, 5540, 5545, 5555, 5560, 5565, 5575, 5580, 5585, 5655, 5660, 5665, 5675, 5680, 5685, 5695, 5700, 5705 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	21 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeNET B:

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		5500-5580, 5680-5700 MHz in 20 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		24 dBm
Regulation Max EIRP		30 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Enabled by default)

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5495, 5500, 5505, 5515, 5520, 5525, 5535, 5540, 5545, 5555, 5560, 5565, 5575, 5580, 5585, 5655, 5660, 5665, 5675, 5680, 5685, 5695, 5700, 5705 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	21 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

FCC 5.4 GHz

HW Revision C - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	AU, SU-E	SU-A, SU-E-BS, BU, RB, RB-D, BU-D
1 – 5	21	9
6	20	9
7	19	9
8	17	9

HW Revision E - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	SU-A (new enclosure)	SU-I
1 – 5	10	21
6	10	20
7	10	19
8	10	17

General Country Parameters:

Parameter	Value/Option
Country Code	1024
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies	BreezeACCESS VL and AU-EZ	5500 to 5700 MHz in 5 MHz steps
	BreezeNET B	5500 to 5700 MHz in 10 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		24 dBm
Regulation Max EIRP		30 dBm
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Enabled by default)

Sub Band 2 - BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5485 to 5710 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	21 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeNET B:

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		5520 to 5680 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		24 dBm
Regulation Max EIRP		30 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Enabled by default)

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5485 to 5710 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	21 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Australia 5.4 GHz

HW Revision C - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	AU, SU-E	SU-A, SU-E-BS, BU, RB, RB-D, BU-D
1 – 5	21	9
6	20	9
7	19	9
8	17	9

HW Revision E - limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	SU-A (new enclosure)	SU-I
1 – 5	10	21
6	10	20
7	10	19
8	10	17

General Country Parameters:

Parameter	Value/Option
Country Code	1044
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5500-5580, 5660-5700 MHz in 20 MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	24 dBm
Regulation Max EIRP	30 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5495, 5500, 5505, 5515, 5520, 5525, 5535, 5540, 5545, 5555, 5560, 5565, 5575, 5580, 5585, 5655, 5660, 5665, 5675, 5680, 5685, 5695, 5700, 5705 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	21 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeNET B:

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		5500-5580, 5680-5700 MHz in 20 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		24 dBm
Regulation Max EIRP		30 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Enabled by default)

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5495, 5500, 5505, 5515, 5520, 5525, 5535, 5540, 5545, 5555, 5560, 5565, 5575, 5580, 5585, 5655, 5660, 5665, 5675, 5680, 5685, 5695, 5700, 5705 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	21 dBm
Regulation Max EIRP	27 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Universal 5.4 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	21
6	20
7	19
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	1064
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies	BreezeACCESS VL and AU-EZ	5480-5710 MHz in 5 MHz steps
	BreezeNET B	5480-5710 MHz in 10 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		No Limit
Regulation Max EIRP		AU: 38 dBm SU: 49 dBm BU/RB: 49 dBm
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Disabled by default)

Sub Band 2 - BreezeACCESS VL

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5475-5720 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	AU: 38 dBm SU: 49 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Disabled by default)

Sub Band 2 – BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		5490-5700 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		No Limit
Regulation Max EIRP		49 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Disabled by default)

Sub Band 3 – BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5475-5720 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	49 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Disabled by default)

Universal, No Encryption 5.4 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	21
6	20
7	19
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	1099
Data Encryption	Disabled
AES Encryption	Disabled
Authentication Encryption	Disabled

Sub Band 1:

Applicable for BreezeACCESS VL and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies	BreezeACCESS VL	5480-5710 MHz in 5 MHz steps
	BreezeNET B	5480-5710 MHz in 10 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		No Limit
Regulation Max EIRP		AU: 38 dBm SU: 49 dBm BU/RB: 49 dBm
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Disabled by default)

Sub Band 2 - BreezeACCESS VL

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5475-5720 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	AU: 38 dBm SU: 49 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Disabled by default)

Sub Band 2 - BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		5490-5700 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		No Limit
Regulation Max EIRP		49 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Disabled by default)

Sub Band 3 – BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5475-5720 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	49 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Disabled by default)

Cuba 5.8 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	HW Revision A*	HW Revision B and Higher
1 – 5	21	21
6	21	20
7	21	19
8	Not applicable	17

General Country Parameters:

Parameter	Value/Option
Country Code	192
Data Encryption	Disabled
AES Encryption	Disabled
Authentication Encryption	Disabled

Sub Band 1:

Applicable for BreezeACCESS VL and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		A*
Center Frequencies	HW Revision A*	5740-5810 MHz in 10 MHz steps
	HW Revision B (all units), BreezeNET B	5740-5840 MHz in 10 MHz steps
	BreezeACCESS VL with HW Revision C or E	5740-5840 MHz in 5 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

* HW Revision A (BreezeACCESS VL) is supported only by SW versions below 4.5.

Sub Band 2 – BreezeNET B:

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies		5750-5830 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5730-5845 MHz in 5 MHz steps
Bandwidth	40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port	36 dBm
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

UK 5.8 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	HW Revision A*	HW Revision B and Higher
1 – 5	21	21
6	21	20
7	21	19
8	Not applicable	17

General Country Parameters:

Parameter	Value/Option
Country Code	826
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	A*
Center Frequencies	5740, 5750, 5760, 5770, 5780, 5830, 5840 MHz*
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	36 dBm*
Regulation Max EIRP	36 dBm*
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported* (Enabled by default)

* HW Revision A (BreezeACCESS VL) is supported only by SW versions below 4.5. In these units the frequencies 5790, 5800, 5810 and 5820 are also available, and the installer should avoid using them for compliance with relevant regulations. In addition, note that in these units

Regulation Max Tx Power and Max EIRP are set to the previous value of 33 dBm, and DFS is not supported.

Sub Band 2 – BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Frequencies	5730, 5740, 5750, 5760, 5770, 5780, 5790, 5820, 5830, 5840 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	33 dBm
Regulation Max EIRP	33 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeNET B:

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies		5750, 5760, 5770 MHz
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		36 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Frequencies	5730, 5740, 5750, 5760, 5770, 5780, 5790, 5820, 5830, 5840 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	33 dBm
Regulation Max EIRP	33 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

FCC 5.8 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	HW Revision A*	HW Revision B and Higher
1 – 5	21	21
6	21	20
7	21	19
8	Not applicable	17

General Country Parameters:

Parameter	Value/Option
Country Code	1020
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		A*
Center Frequencies	BreezeACCESS VL with HW Revision A or B and BreezeNET B	5740-5830 MHz in 10 MHz steps
	BreezeACCESS VL with HW Revision C or E, AU-EZ with HW Revision C	5740-5830 MHz in 5 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		30 dBm
Regulation Max EIRP		AU - 36 dBm (Point to Multipoint unit) SU, BU, RB - No Limit (Point to Point units)
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

* HW Revision A (BreezeACCESS VL) is supported only by SW versions below 4.5.

Sub Band 2 - BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5735-5835 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	AU - 36 dBm (Point to Multipoint unit) SU - No Limit (Point to Point unit)
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeNET B:

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies		5750-5820 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		30 dBm
Regulation Max EIRP		No Limit (Point to Point units)
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5735-5835 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	No Limit (Point to Point units)
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Universal, No Encryption 5.8 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	21
6	20
7	19
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	1030
Data Encryption	Disabled
AES Encryption	Disabled
Authentication Encryption	Disabled

Sub Band 1:

Applicable for BreezeACCESS VL and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies	HW Revision B	5740-5840 MHz in 10 MHz steps
	BreezeNET B with HW Revision C	5740-5860 MHz in 10 MHz steps
	BreezeACCESS VL with HW Revision C or E	5740-5860 MHz in 5 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 2 - BreezeACCESS VL

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5730-5865 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	36 dBm
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeNET

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies	HW Revision B (BreezeNET B14/28)	5750-5820 MHz in 10 MHz steps
	HW Revision C	5750-5850 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 – BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5730-5865 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	36 dBm
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Australia 5.8 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	21
6	20
7	19
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	1048
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies	BreezeACCESS VL and AU-EZ	5740-5830 MHz in 5 MHz steps
	BreezeNET B	5740-5830 MHz in 10 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		30 dBm
Regulation Max EIRP		36 dBm
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 2 - BreezeACCESS VL:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5735-5835 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	36 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeNET B:

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		5750-5820 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		30 dBm
Regulation Max EIRP		36 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 – BreezeNET B:

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5735-5835 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	36 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Universal 5.8 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)	
	HW Revision A*	HW Revision B and Higher
1 – 5	21	21
6	21	20
7	21	19
8	Not applicable	17

General Country Parameters:

Parameter	Value/Option
Country Code	1060
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		A
Center Frequencies	HW Revision A, B*	5740-5840 MHz in 10 MHz steps
	BreezeNET B with HW Revision C	5740-5860 MHz in 10 MHz steps
	BreezeACCESS VL with HW Revision C or E, AU-EZ with HW Revision C	5740- 5865 MHz in 5 MHz steps
Bandwidth		20 MHz
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		AU – 36 dBm SU, RB, BU – No Limit
Min Modulation Level		1
Max Modulation Level		8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Disabled by default)

* HW Revision A (BreezeACCESS VL) is supported only by SW versions below 4.5.

Sub Band 2 - BreezeACCESS VL

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5730- 5870 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	36 dBm
Regulation Max EIRP	AU – 36 dBm SU – No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Disabled by default)

Sub Band 2 - BreezeNET

Parameter		Value/Option
Minimum HW Revision Support		B
Center Frequencies	HW Revision B (BreezeNET B14/28)	5750-5830 MHz in 10 MHz steps
	HW Revision C	5750-5850 MHz in 10 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		36 dBm
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Disabled by default)

Sub Band 3 – BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5730- 5870 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	36 dBm
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Disabled by default)

India 5.8 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	21
6	20
7	19
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	1061
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5835-5865 MHz in 5 MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	36 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeACCESS VL

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5830- 5870 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	36 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeNET

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		5845-5855 MHz in 5 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		30 dBm
Regulation Max EIRP		36 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 – BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5830- 5870 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	36 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Germany 5.8 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	21
6	20
7	19
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	1081
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled

Sub Band 1:

Applicable for BreezeACCESS VL, AU-EZ and BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5765-5865 MHz in 5 MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	36 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeACCESS VL

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5760- 5870 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	27 dBm
Regulation Max EIRP	33 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

Sub Band 2 - BreezeNET

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		5780-5855 MHz in 5 MHz steps
Bandwidth		40 MHz (Turbo Mode)
Regulation Max Tx Power at Antenna Port		30 dBm
Regulation Max EIRP		36 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Supported (Enabled by default)

Sub Band 3 – BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	5760- 5870 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	27 dBm
Regulation Max EIRP	33 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Supported (Enabled by default)

ETSI 2.4 GHz

HW limitations on maximum Tx power:

For all modulation levels: 7 dBm

General Country Parameters:

Parameter	Value/Option
Country Code	2402
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled

Sub Band 1 - BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	2412 - 2472 MHz in 5 MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	20 dBm
Regulation Max EIRP	20 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		2422 - 2462 MHz in 5 MHz steps
Bandwidth		40 MHz
Regulation Max Tx Power at Antenna Port		20 dBm
Regulation Max EIRP		20 dBm
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 - BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	2407 - 2477 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	20 dBm
Regulation Max EIRP	17 dBm
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Universal 2.4 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	20
6	19
7	18
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	2403
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled

Sub Band 1 - BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	2412 - 2472 MHz in 5 MHz steps, and 2484 MHz
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		2422 - 2472 MHz in 5 MHz steps
Bandwidth		40 MHz
Regulation Max Tx Power at Antenna Port		No Limit
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 - BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	2407 - 2477 MHz in 5 MHz steps, and 2484 MHz
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Cuba 2.4 GHz

HW limitations on maximum Tx power:

Modulation Level	Maximum Tx Power (dBm)
1 – 5	20
6	19
7	18
8	17

General Country Parameters:

Parameter	Value/Option
Country Code	2404
Data Encryption	Disabled
AES Encryption	Disabled
Authentication Encryption	Disabled

Sub Band 1 - BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	2412 - 2472 MHz in 5 MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Sub Band 2 - BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		2422 - 2462 MHz in 5 MHz steps
Bandwidth		40 MHz
Regulation Max Tx Power at Antenna Port		No Limit
Regulation Max EIRP		No Limit
Min Modulation Level		1
Max Modulation Level	BreezeNET B14/28	5
	BreezeNET B100	8
Burst Mode		Enabled
Maximum Burst Duration		10 milliseconds
DFS Option		Not Supported

Sub Band 3 - BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	2407 - 2477 MHz in 5 MHz steps
Bandwidth	10 MHz
Regulation Max Tx Power at Antenna Port	No Limit
Regulation Max EIRP	No Limit
Min Modulation Level	1
Max Modulation Level	8
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Not Supported

Country codes for BreezeAccess SU-EZ and SU-L units

The following country codes apply only for BreezeAccess SU-EZ and BreezeACCESS SU-L units:

FCC

General Country Parameters:

Parameter	Value/Option
Country Code	FCC
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled
Maximum TX power	5.250 – 5.350 GHz: 13dBm 5.475 – 5.725 GHz: 13dBm 5.740 – 5.825 GHz: 17dBm

Parameter	Value/Option
Center Frequencies	5.26 – 5.32 GHz in 20Mhz steps 5.5 – 5.7 GHz in 20MHz steps 5.745 – 5.825 in 20MHz steps
Bandwidth	20 MHz
Regulation Max Tx Power at Antenna Port	5.250 – 5.350 GHz: 30dBm 5.475 – 5.725 GHz: 30dBm 5.740 – 5.825 GHz: 30dBm
Regulation Max EIRP	5.250 – 5.350 GHz: 30dBm 5.475 – 5.725 GHz: 30dBm 5.740 – 5.825 GHz: No Limit
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Slave Mode with no Radar detection

ETSI

General Country Parameters:

Parameter	Value/Option
Country Code	ETSI
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled
Maximum TX power	5.475 – 5.725 GHz: 13dBm for 20 MHz , 10 dBm for 10 MHz

Parameter	Value/Option
Center Frequencies	5500 to 5700 MHz in 20 MHz steps
Bandwidth	20 MHz , 10MHz
Regulation Max Tx Power at Antenna Port	30 dBm
Regulation Max EIRP	30 dBm
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Slave Mode with Radar detection

UK

General Country Parameters:

Parameter	Value/Option
Country Code	UK
Data Encryption	Enabled
AES Encryption	Enabled (not supported by AU-EZ)
Authentication Encryption	Enabled
Maximum TX power	5.743 – 5.790 GHz: 16dBm for 20 MHz , 13 dBm for 10 MHz 5.820 – 5.850 GHz : 16dBm for 20 MHz , 13 dBm for 10 MHz

Parameter	Value/Option
Center Frequencies	5740, 5750, 5760, 5770, 5780, 5830, 5840 MHz
Bandwidth	20 MHz , 10MHz
Regulation Max Tx Power at Antenna Port	36 dBm
Regulation Max EIRP	36 dBm
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Slave Mode with Radar detection

Japan

General Country Parameters:

Parameter	Value/Option
Country Code	JAPAN
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled
Maximum TX power	4.91–4.99 GHz: 17dBm for 20 MHz , 14 dBm for 10 MHz

Parameter	Value/Option
Center Frequencies	4.920, 4.940, 4.960, 4.980 GHz
Bandwidth	20 MHz, 10MHz
Regulation Max Tx Power at Antenna Port	24 dBm
Regulation Max EIRP	34 dBm
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Slave Mode with no radar detection

Universal

General Country Parameters:

Parameter	Value/Option
Country Code	Universal
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled
Maximum TX power	4.890 – 5.875 GHz: 17dBm for 20 MHz , 18 dBm for 10 MHz

Parameter	Value/Option
Center Frequencies	4.9 – 5.865 GHz in 5 MHz steps
Bandwidth	20 MHz, 10MHz
Regulation Max Tx Power at Antenna Port	36dBm
Regulation Max EIRP	No Limit
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Slave Mode with option to activate Radar detection

Brazil

General Country Parameters:

Parameter	Value/Option
Country Code	Brazil
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled
Maximum TX power	5.500 – 5.700 GHz: 30dBm for 20 MHz , 27 dBm for 10 MHz 5.740 – 5.830 GHz: 36dBm for 20 MHz , 33 dBm for 10 MHz

Parameter	Value/Option
Center Frequencies	5.500 – 5.700 GHz in 5Mhz steps 5.740 – 5.830 GHz in 5MHz steps
Bandwidth	10MHz , 20 MHz
Regulation Max Tx Power at Antenna Port	5.500 – 5.700 GHz: 30dBm 5.740 – 5.830 GHz: 30dBm
Regulation Max EIRP	5.500 – 5.700 GHz: 30dBm 5.740 – 5.830 GHz: No Limit
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Slave Mode with no Radar detection

India

General Country Parameters:

Parameter	Value/Option
Country Code	FCC
Data Encryption	Enabled
AES Encryption	Enabled
Authentication Encryption	Enabled
Maximum TX power	5.830 – 5.870 GHz: 36 dBm for 20 MHz , 36 dBm for 10 MHz

Parameter	Value/Option
Center Frequencies	5.830 – 5.870 GHz in 5Mhz steps
Bandwidth	10 MHz, 20 MHz
Regulation Max Tx Power at Antenna Port	5.830 – 5.870 GHz: 30dBm
Regulation Max EIRP	5.830 – 5.870 GHz: No Limit
Burst Mode	Enabled
Maximum Burst Duration	10 milliseconds
DFS Option	Slave Mode with no Radar detection

Matching Country Codes for BreezeACCESS units

The table below describes a correspondence between the country codes available in BreezeACCESS AU units and the country codes for the BreezeACCESS SU-EZ and SU-L units.

It is the customer's responsibility to ensure that none of the local regulations are broken when selecting a particular Country Code.

BreezeACCESS AU Country Code #	**Country Code Description**	**Country Code for BreezeACCESS SU-EZ and BreezeACCESS SU-L**	**Comments**
392 – Sub Band 1 & Sub Band 2	Japan 4.9 GHz	JAPAN	Only for the lower band
394– Sub Band 1	Japan 4.9 GHz	N/A	
1090– Sub Band 1 & Sub Band 2	Universal 4.9 GHz	Universal	
1050– Sub Band 1 & Sub Band 2	Universal 5.2 GHz	Universal	
1023 – Sub Band 1 & Sub Band 2	FCC 5.3 GHz	FCC	
1010– Sub Band 1 & Sub Band 2	ETSI 5.4GHz	ETSI	
1014– Sub Band 1 & Sub Band 2	ETSI-F 5.4GHz	ETSI	
1024– Sub Band 1 & Sub Band 2	FCC 5.4GHz	FCC	
1044– Sub Band 1 & Sub Band 2	Australia 5.4GHz	ETSI	
1064– Sub Band 1 & Sub Band 2	Universal 5.4 GHz	Universal, Brazil	
192	Cuba 5.8 GHz	Universal	
826– Sub Band 1 & Sub Band 2	UK 5.8 GHz	UK	
1020– Sub Band 1 & Sub Band 2	FCC 5.8 GHz	FCC	
1048– Sub Band 1 & Sub Band 2	Australia 5.8 GHz	Universal	
1060– Sub Band 1 & Sub Band 2	Universal 5.8 GHz	Universal, India, Brazil	
1061– Sub Band 1 & Sub Band 2	India 5.8 GHz	Universal, India	
1081– Sub Band 1 & Sub Band 2	Germany 5.8 GHz	Universal	Must activate DFS on SU