



**BreezeACCESS[®] VL, AU-EZ and
BreezeNET[®] B**

Country Codes

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Introduction

Some operational parameters as well as several features of BreezeACCESS VL, AU-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 and BreezeNET B differ significantly among countries. To ensure compliance with various different regulations, BreezeACCESS VL, AU-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 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)

Japan 4.9 GHz (regular)

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

Maximum Tx Power Limits (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:

Applicable for 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:

Applicable for 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)

Maximum Tx Power Limits (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:

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:

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:

Applicable for BreezeACCESS VL and BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies	BreezeACCESS VL	4910-5090 MHz in 5 MHz steps
	BreezeNET B	4910-5090 MHz in 10 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:

Applicable only for 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

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.

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	28 dBm
Regulation Max EIRP	28 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)

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)

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
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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)

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)	

WLG (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		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 - 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	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 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	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)	

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	

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	

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:

Applicable only for 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	

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:

Applicable only for 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

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	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	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	Not Supported

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	Not Supported	

WLG (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	

ETSI 2.4 GHz

HW limitations on maximum Tx power: 7 dBm (all modulation levels)

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 10 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 10 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

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 2 - BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	2412 - 2472 MHz in 10 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 4 - BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		2422 - 2462 MHz in 10 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

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 2 - BreezeNET B

Parameter	Value/Option
Minimum HW Revision Support	C
Center Frequencies	2412 - 2472 MHz in 10 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 4 - BreezeNET B

Parameter		Value/Option
Minimum HW Revision Support		C
Center Frequencies		2422 - 2462 MHz in 10 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