

AU 915-928 (LA915.x ou AU921.x)

Detalhamento das Faixas de Frequências AU915-928

Link	AU915-928 MHz {Sub-banda} (Austrália, Brasil e outros)	Data Rate	Config LoRa	[bits / seg]	
Upstream - 64 canais - BW 125 kHz - DR0 a DR5 - Coding Rate: 4/5 - incremento de 200 kHz	{.a:+0}: [00] 915,2 / [01] 915,4 / [02] <u>915,6</u> / [03] 915,8 / [04] 916,0 / [05] <u>916,2</u> / [06] 916,4 / [07] 916,6	ATC/Everynet LA915.a			
	{.b:+8}: [00] 916,8 / [01] 917,0 / [02] <u>917,2</u> / [03] 917,4 / [04] 917,6 / [05] 917,8 / [06] 918,0 / [07] 918,2	TTN AU915-928.b			
	{.c:+16}: [00] 918,4 / [01] 918,6 / [02] <u>918,8</u> / [03] 919,0 / [04] 919,2 / [05] 919,4 / [06] 919,6 / [07] 919,8				
	{.d:+24}: [00] 920,0 / [01] 920,2 / [02] <u>920,4</u> / [03] 920,6 / [04] 920,8 / [05] 921,0 / [06] 921,2 / [07] 921,4	DR0	SF12 / 125 kHz		250
	{.e:+32}: [00] 921,6 / [01] 921,8 / [02] <u>922,0</u> / [03] 922,2 / [04] 922,4 / [05] 922,6 / [06] 922,8 / [07] 923,0	DR1	SF11 / 125 KHz		440
		DR2	SF10 / 125 kHz		980
		DR3	SF9 / 125 kHz		1.760
	{.f:+40}: [00] 923,2 / [01] 923,4 / [02] <u>923,6</u> / [03] 923,8 / [04] 924,0 / [05] 924,2 / [06] 924,4 / [07] 924,6	DR4	SF8 / 125 kHz		3.125
		DR5	SF7 / 125 kHz		5.470
{.g:+48}: [00] 924,8 / [01] 925,0 / [02] <u>925,2</u> / [03] 925,4 / [04] 925,6 / [05] 925,8 / [06] 926,0 / [07] 926,2					
{.h:+56}: [00] 926,4 / [01] 926,6 / [02] <u>926,8</u> / [03] 927,0 / [04] 927,2 / [05] 927,4 / [06] 927,6 / [07] 927,8					
Upstream - 8 canais -BW 500 kHz - DR6 - Coding Rate: 4/5 - incremento de 1.6 MHz	[00+(64)] 915,9 [01+(64)] 917,5 [02+(64)] 919,1 [03+(64)] 920,7 [04+(64)] 922,3 [05+(64)] 923,9 [06+(64)] 925,5 [07+(64)] 927,1	DR6 DR7	SF8C / 500 kHz RFU	12.500 ---	
Downstream - 8 canais - BW 500 kHz - DR8 a DR13 - incremento de 600 kHz	[0] 923,3	DR8	SF12CR / 500 kHz	980	
	[1] 923,9	DR9	SF11CR / 500 kHz	1.760	
	[2] 924,5	DR10	SF10CR / 500 kHz	3.900	
	[3] 925,1	DR11	SF9CR / 500 kHz	7.000	
	[4] 925,7	DR12	SF8CR / 500 kHz	12.500	
	[5] 926,3	DR13	SF7CR / 500 kHz	21.900	
	[6] 926,9	DR14	RFU	---	
	[7] 927,5	DR15	LoRaWAN	---	
Brasil (AU915-928)	ANATEL - Resolução No. 680, de 27 Jun 2017 , Artigo 10 ANATEL - Ato No. 14.448, de 4 Dez 2017 , Seções 4.1.4 e 10 ANATEL – Ato No. 6.506, de 27 Ago 2018				

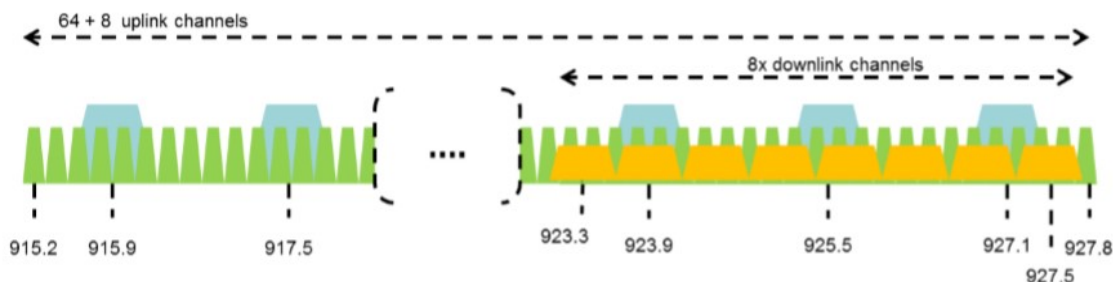


Figure 2: AU915-928 channel frequencies

Modulation	Sync word	Preamble length	TXPower	Configuration (EIRP)
LORA	0x34	8 symbols	0	Max EIRP
The following parameters are recommended values for the US902-928 band.			1:14	Max EIRP – 2*TXPower
RECEIVE_DELAY1	1 s		15	Defined in LoRaWAN
RECEIVE_DELAY2	2 s (MUST be RECEIVE_DELAY1 + 1s)		Table 36 : AU915-928 TX power table	
JOIN_ACCEPT_DELAY1	5 s			
JOIN_ACCEPT_DELAY2	6 s			
MAX_FCNT_GAP	16384			
ADR_ACK_LIMIT	64			
ADR_ACK_DELAY	32			
ACK_TIMEOUT	2 +/- 1 s (random delay between 1 and 3 seconds)			

Fontes:

- https://loro-alliance.org/wp-content/uploads/2020/11/RP_2-1.0.2.pdf, acessado em 30 Jan 2021.
- <https://www.thethingsnetwork.org/docs/lorawan/frequency-plans.html#au915-928>, acessado em 04 Ago 2020.
- https://ns.docs.everynet.io/channel_plans/LA915A.html, acessado em 04 Ago 2020.
- <https://www.fr.net.br/2016/04/wifi-o-que-e-eirp.html>, acessado em 30 Jan 2021.

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LoRaWAN

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Brazil AU915-928

National Telecommunications Agency (ANATEL) Resolution No. 680, from June 27, 2017 - Portuguese only [Article 10](#)

National Telecommunications Agency (ANATEL) Act No. 14448, from December 4, 2017 - Portuguese only [Section 10.3](#)

[ns.docs.everynet.io/channel_plans/LA915A.html](#)

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LA915A

Everynet implementation of AU915-928 channel plan for Brazil.

First 8 channels utilized.

ChannelsDefaultMask[0] = 0xFF;

Uplink channels.

Index	Frequency	Datarates
0	915.2	0,1,2,3,4,5
1	915.4	0,1,2,3,4,5
2	915.6	0,1,2,3,4,5
3	915.8	0,1,2,3,4,5