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] 915,6 / [03] 915,8 / [04] 916,0 / [05] 916,2 / [06] 916,4 / [07] 916,6	ATC/Everynet LA915.a		
	{.b:+8}: [00] 916,8 / [01] 917,0 / [02] 917,2 / [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] 918,8 / [03] 919,0 / [04] 919,2 / [05] 919,4 / [06] 919,6 / [07] 919,8			
	{.d:+24}:[00] 920,0 / [01] 920,2 / [02] 920,4 / [03] 920,6 / [04] 920,8 / [05] 921,0 / [06] 921,2 / [07] 921,4	DR0 DR1 **DR2** DR3 DR4 DR5	SF12 / 125 kHz SF11 / 125 KHz **SF10 / 125 kHz** SF9 / 125 kHz SF8 / 125 kHz SF7 / 125 kHz	250 440 980 1.760 3.125 5.470
	{.e:+32}:[00] 921,6 / [01] 921,8 / [02] 922,0 / [03] 922,2 / [04] 922,4 / [05] 922,6 / [06] 922,8 / [07] 923,0			
	{.f:+40}:[00] 923,2 / [01] 923,4 / [02] 923,6 / [03] 923,8 / [04] 924,0 / [05] 924,2 / [06] 924,4 / [07] 924,6			
	{.g:+48}:[00] 924,8 / [01] 925,0 / [02] 925,2 / [03] 925,4 / [04] 925,6 / [05] 925,8 / [06] 926,0 / [07] 926,2			
	{.h:+56}:[00] 926,4 / [01] 926,6 / [02] 926,8 / [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** [1] 923,9 [2] 924,5 [3] 925,1 [4] 925,7 [5] 926,3 [6] 926,9 [7] **927,5**	**DR8** **DR9** **DR10** **DR11** **DR12** **DR13** DR14 DR15	SF12CR / 500 kHz SF11CR / 500 kHz SF10CR / 500 kHz SF9CR / 500 kHz SF8CR / 500 kHz SF7CR / 500 kHz RFU LoRaWAN	980 1.760 3.900 7.000 12.500 21.900 --- ---
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			

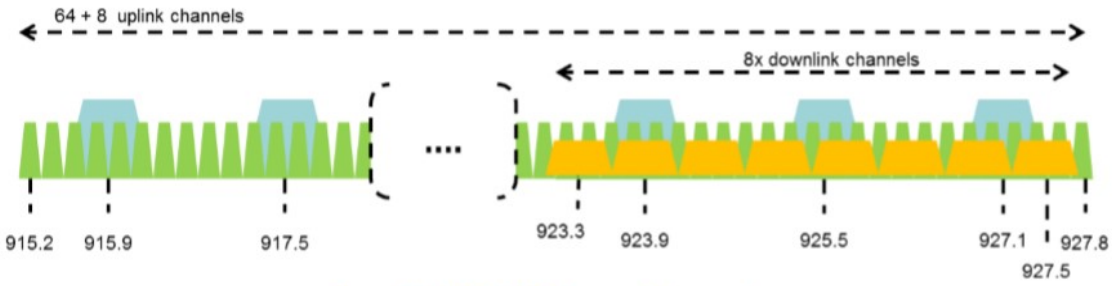

Figure 2: AU915-928 channel frequencies

Modulation	Sync word	Preamble length
LORA	0x34	8 symbols

The following parameters are recommended values for the US902-928 band.

RECEIVE_DELAY1	1 s
RECEIVE_DELAY2	2 s (MUST be RECEIVE_DELAY1 + 1s)
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)

TXPower	Configuration (EIRP)
0	Max EIRP
1:14	Max EIRP – 2*TXPower
15	Defined in LoRaWAN

Table 36 : AU915-928 TX power table

Fontes:

(a) https://lora-alliance.org/wp-content/uploads/2020/11/RP_2-1.0.2.pdf, acessado em 30 Jan 2021.

(b) https://www.thethingsnetwork.org/docs/lorawan/frequency-plans.html#au915-928, acessado em 04 Ago 2020.

(c) https://ns.docs.everynet.io/channel_plans/LA915A.html, acessado em 04 Ago 2020.

(d) https://www.fr.net.br/2016/04/wifi-o-que-e-eirp.html, acessado em 30 Jan 2021.