

# Colombia

Country Profile	
<b>Regulator</b>	Commission on the Regulation of Communications
<b>Acronym</b>	(CRC)
<b>Website</b>	<a href="https://www.crcm.gov.co/">https://www.crcm.gov.co/</a>
<b>Twitter</b>	<a href="https://twitter.com/CRCCol">https://twitter.com/CRCCol</a>
<b>Contact</b>	<a href="mailto:atencioncliente@crcm.gov.co">atencioncliente@crcm.gov.co</a>
<b>Ministry</b>	Ministry of Information and Communication Technologies
<b>Acronym</b>	(MinTIC)
<b>Website</b>	<a href="https://www.mintic.gov.co">https://www.mintic.gov.co</a>
<b>Twitter</b>	<a href="https://twitter.com/Ministerio_TIC">https://twitter.com/Ministerio_TIC</a>
<b>Contact</b>	<a href="mailto:minticresponde@mintic.gov.co">minticresponde@mintic.gov.co</a>

Need to add spectrum authority to database <https://www.ane.gov.co/> — *Steve Song* 2019/03/25 10:31

## National Policy

Source: <https://www.redesac.org.mx/regulacion>

In Colombia, Law 1341 of 2009 has opened the entry of new actors for the provision of telecommunications services, which could be small operators or large operators, for profit or non-profit.

Colombia has been exploring the possibility of accommodating community operators in rural or difficult-to-access areas for the deployment of land mobile services (broadband) and is still in the study stage.

According to information obtained by the Ministry of ICT and the National Spectrum Agency (ANE), pilot tests are intended to define technical, economic and social feasibility, to establish new regulatory measures. In addition to this exploration, there are community television and broadcasting licenses for which special price conditions and obligations have been determined.

Resolution 461 of 2017, issued by the ANE, mentions the technical and operative conditions for the operation of blank space devices in the band 470 MHz to 698 MHz in the “free use” modality, which does not require payments for the use of the radioelectric spectrum.

Additionally, Resolution 711 of 2016 significantly expanded the spectrum destined for free use, with which it hopes to guarantee the possibility that connectivity technologies at reasonable costs reach low-income populations.

Resolution 1824 was published in 2018, establishing mechanisms for the light assignment of spectrum specifically in band E, in order to facilitate the deployment of broadband services in rural and remote areas.

This band constitutes an adequate technical solution to respond to the high demand of broadband spectrum for the provision of services, due to the fact that it presents a very low probability of interference between links; providing high data transmission capacities for the deployment of network

links (backhaul) and last mile radio links, in addition to the easy installation of equipment, the bandwidths that use 250MHz base channelization plans and the high performance levels (throughput) that can be reached per channel.

The Ministry of ICT (MinTIC) may establish discounts on the consideration for the use of the radio spectrum in cases where the sole purpose is the development of social telecommunications programs or projects.

## **Operator Licensing**

### **Technical and Administrative Requirements**

#### **Libre Router homologation**

Consultations about the homologation of the LibreRouter were conducted with the Ministry of Information and Communication Technologies (MinTIC), the National Spectrum Agency (ANE) and the Communications Regulatory Commission (CRC). It was determined that the entity in charge of homologation in Colombia is the CRC, to whom a consultation was sent regarding the need for homologation of the LibreRouter. After some exchanges in which the CRC requested more specific information on the equipment such as brand, model, manufacturer, technical specifications, block diagram, which were sent with the support of AlterMundi's team, a letter was received notifying that "the equipment of the brand LIBREROUTER, model LR1, manufactured by DRAGINO, is not currently required to complete the approval process before the CRC, in accordance with the provisions of CRC Resolutions 5162 of 2017 and 5300 of 2018. Consequently, the terminals associated with the aforementioned brand and model are not required to go through the process of obtaining the respective 'Certificate of Approval'". The complete CRC response letter is available at:

<https://redescomunitarias.co/es/noticias/librerouter-con-via-libre-para-ser-probado-en-redes-comunitarias-en-colombia>

This letter certifies that the LibreRouter is exempt from the homologation process in Colombian territory.

#### **Licensing Fees**

## **Access to Spectrum**

### **Technical and Administrative Requirements**

#### **Licensed**

#### **Access Networks**

<b>Operator</b>	<b>800MHz</b>	<b>900MHz</b>	<b>1800MHz</b>	<b>2100MHz</b>	<b>2600MHz</b>	<b>3500MHz</b>
XYZcom	None	2×10	2×15	2×10	None	None

### PtP Networks

### License-Exempt

### Access Networks

<b>Frequency</b>	<b>Power Limit</b>	<b>Transmit Power</b>
<i>2.4GHz</i>		
2400 - 2483.5 MHz	2.4EIRP	
<i>5GHz</i>		
5150-5250 MHz	5.1EIRP	
5250-5350 MHz	5.2EIRP	
5470-5725 MHz	5.4EIRP	
5725-5800 MHz	5.8EIRP	

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### Secondary Use

### Access Networks

### PtP Networks

### Spectrum Fees / Costs

### Application

### Annual

### Auction

## Backhaul

## Gender

## Universal Service

## Cooperatives

## Resources / References

### Coding examples

This could be used to frame specific questions that should be asked

<callout type="tip" icon="true">This could be for hints / tips / tricks on finding information, what to look for etc.</callout> <callout type="question" icon="true">A question</callout> <callout type="success" icon="true">A good practice example might look like this</callout> <callout type="danger" icon="true">A bad practice to be aware of might look like this</callout>

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