

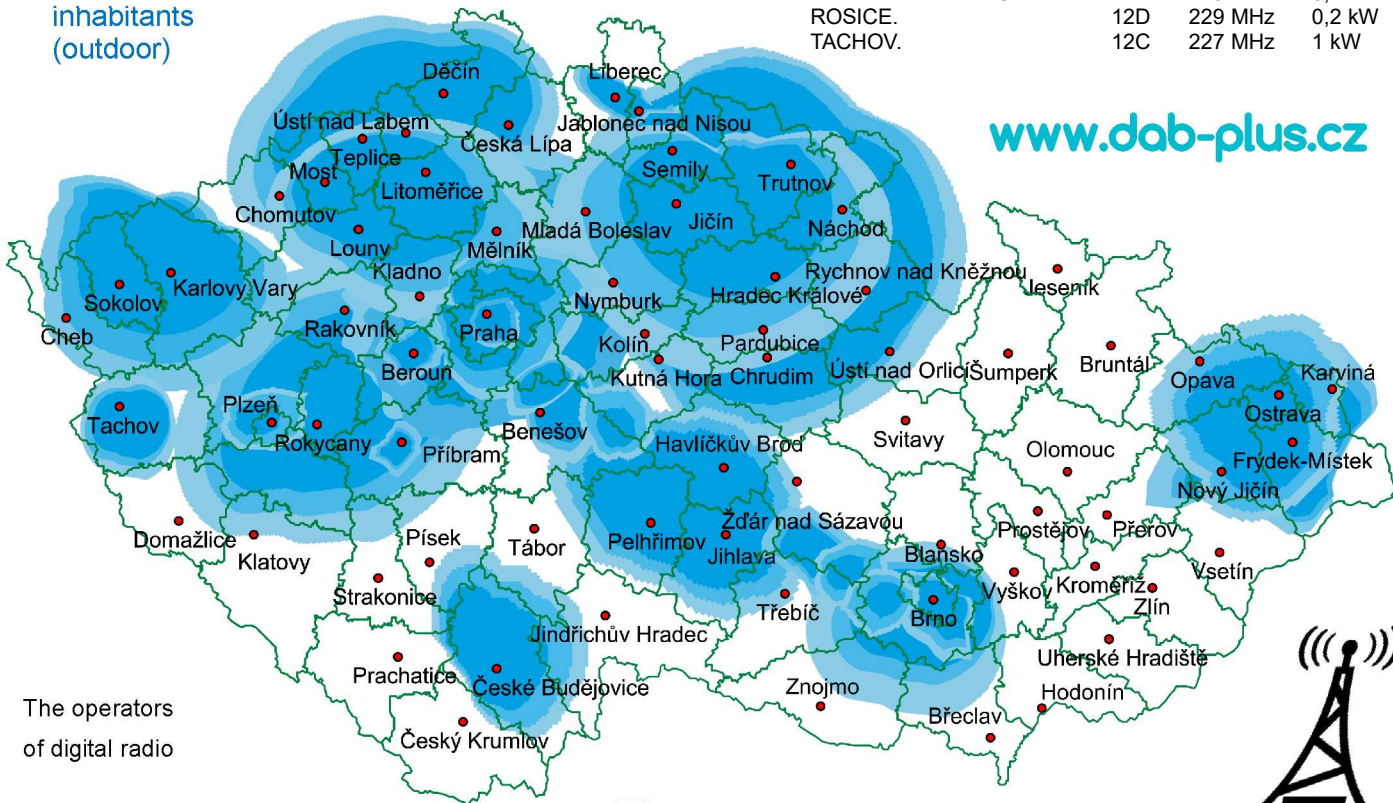
## List of stations

ČRo Radiožurnál	ČRo Č. Budějovice	RockZone
ČRo Dvojka	ČRo Brno	Pigy Rádio
ČRo Vltava	ČRo Ostrava	Rádio Dechovka
ČRo Plus	ČRo Vysočina	Rádio ZET
ČRo Wave	ČRo Rádio Junior	Rádio PROGLAS
ČRo Jazz	Rádio Impuls	Rádio BEAT
ČRo D-dur	Český Impuls	Samson Digital
ČRo Retro	Frekvence 1	Rádio BLANÍK
ČRo Regina DAB	City 937	SeeJay Rádio
ČRo Plzeň	Evropa 2	DAB Plus Top 20



## Map coverage

Covered 7,6 million inhabitants (outdoor)



[www.dab-plus.cz](http://www.dab-plus.cz)

## List of transmitters

Name	Channel	Frequency	ERP max.
PLZEN BORY	10A	210 MHz	0,2 kW
CESKE BUD. KLUK	5D	180 MHz	1 kW
PRAHA ROSIC. STAD.	11A	217 MHz	0,2 kW
PRIBRAM HVEZDARNA	11A	217 MHz	1 kW
TRUTNOV	5D	180 MHz	1 kW
VELEMIN MILESOVKA	10A	210 MHz	1 kW
PRAHA STRAHOV	10D	215 MHz	0,125 kW
PRAHA ZIZKOV	12C	227 MHz	20 kW
BEROUN	12C	227 MHz	0,3 kW
PLZEN RADEC	12C	227 MHz	10 kW
BRNO HADY	12D	229 MHz	5 kW
OSTRAVA HOSTALKOVICE.	12D	229 MHz	10 kW
JIHLAVA - STRAZNIK	12D	229 MHz	5 kW
TRUTNOV - CERNA HORA.	12C	227 MHz	10 kW
USTI NAD LABEM - B. HORA	12C	227 MHz	10 kW
CTYRKOLY	12C	227 MHz	0,2 kW
MECHNOV.	12C	227 MHz	0,2 kW
KACOV.	12C	227 MHz	0,2 kW
VELKE MEZIRICI.	12D	229 MHz	0,2 kW
VELKA BITES - KROVI.	12D	229 MHz	0,2 kW
ROSICE.	12D	229 MHz	0,2 kW
TACHOV.	12C	227 MHz	1 kW



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The operators of digital radio



The status of the 1. 1. 2019

ENv201902



# Whats is DAB?

Digital Audio Broadcasting (DAB) is a digital broadcasting technology for an area spreaded broadcasting of broadcasting stations. More over 475 million people worldwide are in the area of its broadcasting effect and more than 2 270 broadcasting programs and multimedia services are broadcasted in total. Today (2018) DAB + Digital Broadcasting broadcasts to 41 countries and over 70 million receivers has been sold so far. DAB is a way of broadcasting signals, similar to broadcasting a digital TV DVB-T. DAB+ is likely to be twice as effective as the regular DAB, since the regular one isnt using the audio codex AAC+. It's been launched to the market in 2007. As with DVB-T, DAB/DAB+ offers the broadcasting of the multiple broadcasting channels with different preferences. The setting up of DAB+ is also a good opportunity for minor music how to get to the listeners (public).

## The advantages of the system:

- A good quality of sounding techniques
- An easy choice of programs
- Excellent mobile receive
- Multimedial data follow
- Advanced option of multimedia and genre
- Energetic savings compared to FM broadcasting

## Radios for receiving DAB+



## Detailed information

<b>EPG</b>	Electronic programic guide
<b>BWS</b>	Broadcast Web Site
<b>DL</b>	Dynamic Label (Texted information)
<b>SLS</b>	Slide Show (Pictured information)
<b>IP</b>	IP tunneling
<b>EWS</b>	Emergency Warning System

<b>TPEG</b>	Traffic Information
- <b>RTM</b>	Road Traffic Message
- <b>PTI</b>	Public Transport Info
- <b>LOC</b>	Localization
- <b>PKI</b>	Parking Information
- <b>CTT</b>	Congestion Travel Time
- <b>TEC</b>	Traffic Event Compact
- <b>WEA</b>	Weather

## Basic principal:

- \* Coding of the sound MPEG 2 (DAB)/ AAC+ (DAB+)
- \* Modulation OFDM (Orthogonal Frequency Division Multiplexing)
- \* Its using a 3rd television Band (174 - 230 MHz) or the L - Band (1452 - 1492 MHz)
- \* 10 - 20 programmms could be contained in one multiplex (based on coding)

# The history DAB

- 1980** Beginning of the evolution
- 1981** The Evolution was taken over by IRT
- 1985** The DAB show of on a conference in Geneva
- 1986** The European project EUREKA 147 was allowed
- 1988** First Broadcasting of DAB in „Geneva“ WARC 88
- 1992** The worldwide frequency allocations
- 1993** The Finish of projects tech. normalization of DAB
- 1995** 1.6. the first DAB broad. was introduced in Norway
  - England with BBC follow + other countries
  - First receivers on IFA in Berlin
  - World DAB Forum evolves
- 1996** Spreading of DAB broadcasting to other countries
- 1999** First test broadcasting in the Czech Republic
- 2007** A better version of the systems DAB+ (AAC+)
- 2010** CTU announced a tender in the L band
- 2011** Launch of DAB + broadcasting in the Czech (Prague)
- 2012** Transmitters for Brno, Ostrava, Liberec and Hr. Kralove
- 2013** Transmitters for Pilsen, Ceske Budejovice and Kar. Vary
- 2014** The first transmitters for the DAB + in the III band
- 2015** Czech Radio has its own multiplex in Prague
- 2016** The Czech government approved the draft development of terrestrial digital broadcasting Czech Radio.
  - 2017** Norway switches off FM transmitters
    - Czech Radio starts regular broadcasting in DAB+
    - extends coverage to Pilsen, Brno and Ostrava
  - 2018** Czech Radio covered D1, northern and eastern Bohemia
    - Over 2 270 stations broadcast worldwide and more than 70 000 000 receivers have been sold with the System DAB / DAB+

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