



TrainSWing FXM20

CAB radio

- Voice communication in GSM-R networks
- Modern design
- Easy to use
- High reliability
- Easy installation
- Easy maintenance



GENERAL DESCRIPTION

CAB Radio TrainSWing FXM20 (further FXM20) is a device primarily designed for voice communication between the train driver and the dispatcher in GSM-R (GSM-Railways) or GSM-P (GSM-Public) networks. Through the connection with the radio block, it is also allows full communication in analogue radio networks.

In addition to voice communication, FXM20 (via GPRS/3G/4G data transmissions in GSM-P network) allows data transmission between the train and the stationary infrastructure (in both directions).

Within analogue data networks, it is possible to implement simplex or duplex voice connections, identification transmission, selective communication with specific subscriber, or transmission of routine messages.

BASIC TECHNICAL DESCRIPTION

FXM20 is designed as a modular system, which consists of:

- Control panel (DMI) FCB20 / FCB25
- Radio and logic unit FRB20
- Simplex/duplex analogue radio station

The locomotive can usually be equipped with one or two control panels (DMI), with only one of them active.

FRB20 radio and control unit is equipped with a data communication interface to which an analogue radio unit can be connected. When using GSM-R and analogue radio unit at the same time, the user interface is integrated into one control environment (DMI).

FXM20 is functionally divided into two separate parts:

FRB20 Radio and logic unit

- enables voice communication in GSM-R and GSM-P networks
- consists of modules integrated in 19" cabinet
- for data transmissions, it can be extended by module using GPRS/3G/4G transmission technology

DMI Control panel

- man-machine-interface for train driver
- for voice communication, a handset with a key switch and a loudspeaker are connected to the Control panel
- FCB20 – black and white LCD with 29 control buttons and emergency call button
- FCB25 – colour LCD with 23 control buttons and emergency call button





BASIC TECHNICAL PARAMETERS

Supply voltage		DC 24V – 110V
Input		max. 250W (according to configuration)
Dimensions (h x w x d)	FRB20	130 x 225 x 220 mm
	DMI	115 x 219 x 65 mm
Weight	FRB20	5 kg
	DMI	2 kg
Cover rating	FRB20	IP20
	DMI	IP54
Complies with standards		EN 50155, EIRENE FRS v8.0.0, EIRENE SRS v16.0.0



www.azd.cz

The information provided in this document contains a general description and characteristics of the device/product, which may change during its own development based on specific customer requirements. The required specific parameters of the product are binding only on the basis of a concluded contract.