



Analogue Radio Module for MESA 26 (Protection class IP 20)

ARM26

The ARM26 is the analogue radio component of the MESA 26 train radio system in protection class IP 20.

The device enables operational communication in the following analogue radio systems:

- 70 cm band according to UIC 751-3
- 2-m-band according to customer-specific requirements

Configuration:

The device is available in different voltage variants and the following versions:

ARM26/2	2 m band
ARM26/7	70 cm band
ARM26/7B	
ARM26/7-2	2 m and 70 cm band
ARM26/7B-2	

B - band switching

Highlights:

- universal system architecture
- uniform and standardised interfaces and sub-assemblies
- 19" plug-in printed circuit board
- cost optimised spares inventory
- fast and efficient repair
- minimized training needed by the maintenance personnel

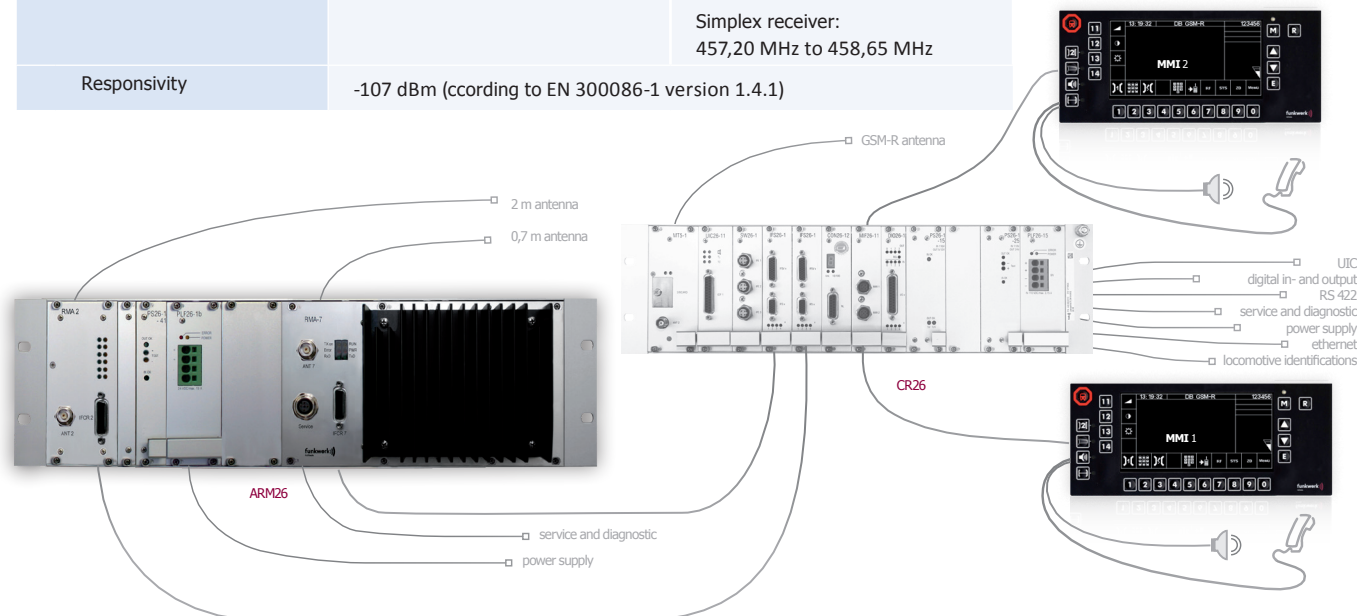
Components:

The device has a modular design and can therefore be configured according to the respective customer requirements. It consists of four functional units:

- 2 m radio module
- 70 cm radio module
- generation of the internal operating voltage
- filtering and screening of the on-board voltage

Technical Specification

Power supply		Dimension + Weight	
Input voltage	24 V / 36 V / 48 V / 72 V / 110 V	Construction	rack according to IEC 60297-3
Tolerances	according to DIN EN 50155	Width	84 TE
Interruption	according to DIN EN 50155, class S1 (no interruption)	Height	3 HE
Maximal power consumption	8 A (at 24 V)	Depth	190,5 mm
Environmental Conditions		Weight	max 6 kg
Protection class	IP 20 according to DIN EN 60529		
Vibration and shockse	according to DIN EN 50155		
EMC	according to DIN EN 50121-3-2 and DIN EN 50155		
Climatic Conditions			
Operating temperature range	-25 °C to +55 °C (at ARM26/2, ARM26/7-2, ARM26/7B-2)		
	-25 °C to +70 °C (at ARM26/7, ARM26/7B)		
Storage temperature range	-40 °C to +70 °C (in original package)		
Maximal gradient	± 1 °C/min of ambient temperature		
Maximal humidity	75 % in annual average		
Relative humidity	95 % on max. 30 days per year		
Altitude and pressure fluctuation	-100 m to 1800 m above sea level		
HF data		2 m band	70 cm band
Modulation type	FM (F3E) or PM (P3E) (channel dependent configurable)	FM	
Channel spacing	12,5 kHz or 25 kHz configurable	25 kHz	
Transmitter			
Frequency range	140,00 MHz to 174,00 MHz	Upper band 467,20 MHz to 468,65 MHz Sub band (optional) 457,20 MHz to 458,65 MHz	
HF power output	1 / 2 / 5 / 10 / 25 W (channel dependent configurable)	0,5 / 2 / 6 / 8 / 10 W (sw controlled)	
HF channel adjustment	by RS422		
Receiver			
Frequency range	140,00 MHz to 174,00 MHz	Duplex- / Scan receiver: 467,20 MHz to 468,65 MHz Simplex receiver: 457,20 MHz to 458,65 MHz	
Responsivity	-107 dBm (ccording to EN 300086-1 version 1.4.1)		



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