

Analogue Radio Module for MESA 26

## ARM26



The ARM26 is the analogue radio component of the MESA 26 train radio system in protection class IP20. 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

### 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

The device is available in the following versions:

- » **ARM26/2**: 2 m band

- » **ARM26/7 + ARM26/7B** : 70 cm band
- » **ARM26/7-2 + ARM26/7B-2**: 2 m and 70 cm band

### 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

## TECHNICAL DATA

### DIMENSION / WEIGHT

Construction	rack according to IEC 60297-3
Width	84 TE
Height	3 HE
Depth	190.5 mm
Weight	max. 6 kg

### POWER SUPPLY

Input voltage	24 V / 36 V / 48 V / 72 V / 110 V
Tolerances	according to DIN EN 50155
Interruption	according to DIN EN 50155, class S1 (no interruption)
Maximal power consumption	8 A (at 24 V)

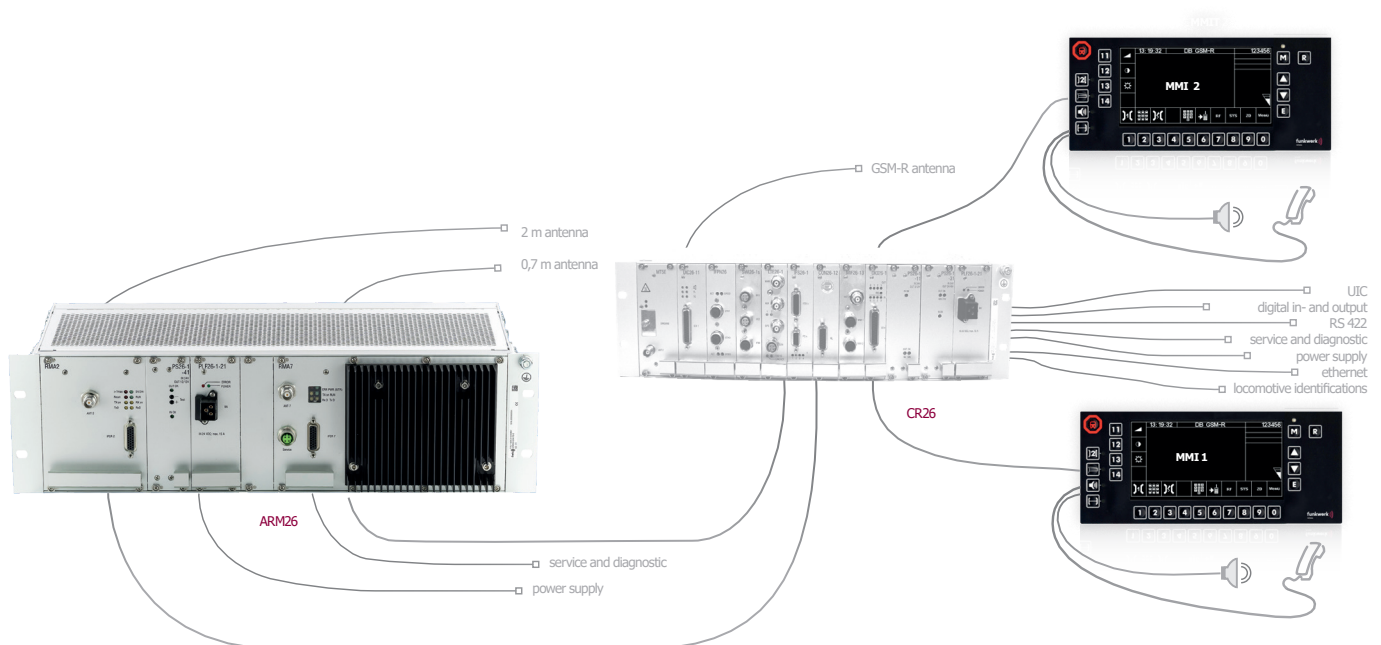
### ENVIRONMENTAL CONDITIONS

Protection class	IP20 according to DIN EN 60529
Vibration and shocks	according to DIN EN 50155
EMC	according to DIN EN 50121-3-2 and DIN EN 50155

## TECHNICAL DATA

### 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



## TECHNICAL DATA

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
<b>Transmitter</b>		
Frequency range	140.00 MHz to 174.00 MHz	Upper band 467.20 MHz to 468.65 MHz Lower band (optional) 457,20 MHz to 458,65 MHz
RF output power	1 / 2 / 5 / 10 / 25 W (channel dependent configurable)	0.5 / 2 / 6 / 8 / 10 W* (sw controlled)
RF channel setting	by RS422	
<b>Receiver</b>		
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
Sensitivity	-107 dBm (according to EN 300086-1 version 2.1.2)	