

Analogue Radio Module for MESA 26

## ARM26C



The ARM26C 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 ARM26C consists of two functional units:

- » RMA26C-x: analogue radio module for the respective frequency ranges in the 2 m band and/or 70 cm band
- » PLFE26-1-36: generation of the internal operating voltage

The device is available in the following versions:

- » **ARM26C-2**: 2 m band
- » **ARM26C-7, ARM26C-7B, ARM26C-7ES**: 70 cm band
- » **ARM26C-72, ARM26C-7B2**: 2 m and 70 cm band

B - band switching

7ES - Modified duplex receiver band (normal in the range around 468 MHz, here around 448 MHz)

### 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

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## 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 to 110 V (Connection to the on-board power supply)
Tolerances	according to DIN EN 50155
Interruption	according to DIN EN 50155, class S2 (interruption up to 10 ms)
Maximal power consumption	100 W (calculated)
Typical power consumption	12 W / 60 W (in idle mode / with established call)

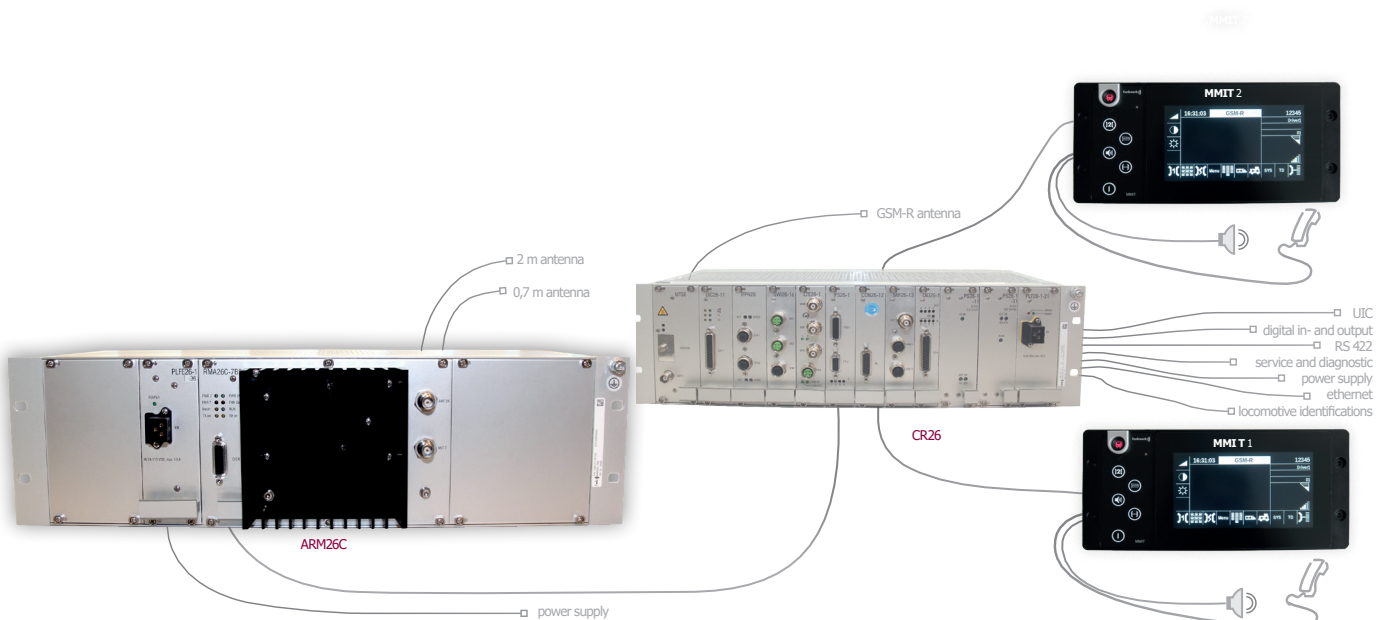
### ENVIRONMENTAL CONDITIONS

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	OT3: -25 °C to +70 °C according to EN 50155
Extended temperature range	ST1: OT3 +15 °C according to EN 50155 (for max. 10 min when switching on)
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

RF DATA	2 m band	70 cm band
Modulation type	FM (F3E) or PM (P3E) (channel dependent configurable)	FM (F3E) or PM (P3E)*
Channel spacing	12.5 kHz or 25 kHz configurable	12.5 kHz or 25 kHz*
Rx / Tx time relation	3:1, maximum continual transmission time: 1 to 7 min (depending on the transmission power level)	3:1, maximum continual transmission time 5 min.

### Transmitter

Frequency range	146.00 MHz to 174.00 MHz	Upper band (optional)* 467.20 MHz to 468.65 MHz Lower band* 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*
RF channel setting	by RS422	

### Receiver

Frequency range	146.00 MHz to 174.00 MHz	Duplex- / Scan receiver: * 467.20 MHz to 468.65 MHz 457.20 MHz to 458.65 MHz 447.20 MHz to 448.65 MHz (depending on hardware variant)
Sensitivity	-107 dBm (according to EN 300086-1 version 2.1.2)	

\* depending on the operating mode