



Dual Mode Voice Cabradio

CRC26-S2

CRC26-S2 is a member of MESA26 product family. It is a Dual Mode Voice Cabradio for GSM-R and VHF 160 MHz.

To operate the CRC26-S2, regular MMI from MESA26 can be used (MMIC and HMI26).

Components:

- MT5E radio module
- VHF 2m radio
- Wide Range Power Supply
- GPS
- Switched, isolated power supply to feed Radio Stop Relais

All know MESA26 features can be supported, like internal trace data, remote management capabilities etc.

The cab radio MESA 26 implements an interface for remote access. This interface is usable over radio link via GPRS or over Ethernet/LAN.

The functionality of the remote management system (Funkwerk product name is "Remote Management Tool" – shortened: RMT) is as follows:

- Automatic discovery of new MESA 26 Cab Radios
- Receiving diagnosis data including alerts
- Monitoring usage of MESA 26
- Discover version of Software and Configuration Dataset
- Deploy Software and Configuration

- Automated deployment based on configurable alerts (e.g. wrong software or configuration dataset detected)
- Scheduling of jobs
- Configurable optimization of bandwidth usage and/or net licenses

Highlights:

- Compact Cap Radio
- Degree of protection IP 54
- Designed as a replaceable plug-in unit
- GSM-R radio module with filter against blocking and interferences
- Standardised interfaces and modules
- Quick and efficient repair
- Lower training requirement for maintenance personnel



Technical Data

Power Supply		Dimensions+ Weight	
Nominal voltage	16,8 ... 154 V(DC)	Construction	compact closed housing
Input nominal voltage	16.8 to 154 V _{DC}	Width	161 mm
Interruption of voltage supply	S1 (no interruption) according to EN 50155	Height	190 mm
max. power consumption	60...200W depending on operation mode:	Depth	? mm
	GSM-R: 35... 60W (depends on hardware configuration)	Weight	max 8 kg
	VHF: 80...200W (depends on configured transmitting power)		
Environmental Conditions			
Degree of protection	IP54 acc. to EN 60529		
Vibrations and shocks	according to 50155 and EN 60068-2-6		
EMC	according to EN 50121-3-2 and EN 50155		
Climatic Conditions			
Operating temperature	GSM-R: -25°C ... +70°C VHF: -25°C ... +55°C		
Storage temperature	-25°C... +70°C (in original package)		
Max. gradient	±1 °C/min ambient temperature		
Relative humidity	according to EN 50155		
Altitude and pressure fluctuation	- 100 m to 1.800 m above sea level		
Interfaces			
Antennas	VHF: TNC, GSM-R: TNC, GPS: TNC		
ETH Service Interface	M12, 4 pol. (Ethernet)		
Radio stop	24V output (max. 2W, protected against short)		
GSM-R	Bands: E-, R-, ER- and public Output power: 8W nominal		
VHF	Frequency Band: 147 ... 172 MHz Channel Spacing: 12.5 / 20 / 25 kHz Power stages: 1 / 2 / 6 / 10 / 25W Sensitivity etc: acc. EN 300 086 Squelch: configurable		