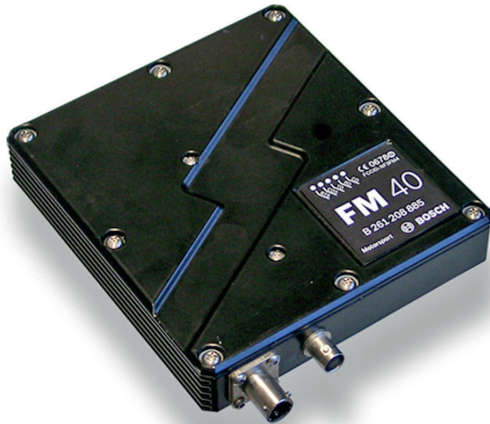


Telemetry Unit FM 40

www.bosch-motorsport.com



- ▶ 750 g
- ▶ 1 to 10 W transmission power

The FM 40 is a half-duplex radio modem suitable for real-time telemetry transmission from a car on the racetrack.

The unit is offered in different hardware versions for several frequency bands in the 430 to 470 MHz range. Within the selected band, the transmission frequency is software programmable in a ± 1 MHz range. The high RF output power of up to 10 W gives excellent range and good track coverage.

From the data acquisition system transmit data is fed into the FM 40 via a RS232 interface. Typically the FM 40 is operated as an unidirectional telemetry transmitter. For other applications, half duplex bidirectional operation is also possible.

Application

International standard I-ETS 300 220, ETS 300 113, FCC

Technical Specifications

Mechanical Data

Size 151 x 138 x 28 mm

Weight 720 g

Housing with LED indicators

Car antenna compatible to existing Bosch telemetry systems.

Max. vibration 60 m/s² at 20 Hz to 2 kHz

Electrical Data

Half duplex radio modem (bidirectional)

Internal data buffer and protocol management

Frequency range 430 to 470 MHz (hardware adjustable)

F(center) ± 1 MHz (software programmable)

Transmission power 1 to 10 W

Receiver sensitivity -116 dBm error detection and forward error correction (FEC)

RF channel bandwidth 12,5 kHz at 9.6 kbps
25 kHz at 19.2 kbps

Data interface RS232

Data rate 9.6 / 19.2 kbps

Required power supply 10 to 18 V

Max. power consumption 25 W at 14 V

Max. current	< 2,5 A
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Operation temperature range	0 to 60°C
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Connectors and Wires

RF	BNC female
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Power / data	CGK SOT 8N35 PN
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Ordering Information

Telemetry Unit FM 40

Order number **B 261 208 898-01**

Accessories

Antenna Cable Kit

Order number **B 261 209 490-01**

Car Antenna

Order number **B 261 208 888-01**

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