

Pit Receiver Box

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The Pit Receiver Box integrates all electronic components necessary to receive telemetry data from a car equipped with a FM 40 transmitter in one weather-proof package. Typically the receiver box is mounted on the pit roof as close as possible to the RX antenna, thus minimizing cable loss. The connection wire to the receiving PC in the garage, which can be up to 50 m long, also supplies power to the Pit Receiver Box.

The Pit Receiver Box contains 1 to 4 UHF receivers fed by a single RX antenna and low noise filter amplifier (LNA). This enables parallel telemetry data reception from up to 4 cars, provided transmitters need to operate in the same 2 MHz frequency band.

The Box is equipped with dual Ethernet port for redundant Ethernet wire to the pit or for connection to a directional link (relay station).

Technical Specifications

Mechanical Data

Weight	4.2 kg
Size	330 x 280 x 180 mm
Max. distance receiver box to PC (with F 020 V01 440-01)	50 m
Working temperature range	-20 to 50°C

Electrical Data

Frequency range	400 to 470 MHz
Working frequency band	$f_c \pm 1$ MHz
Channel spacing	12.5/25 kHz
Sensitivity	≤ -116 dBm at BER 10-3
Serial interface	RS232 (19.2 kBit/s, no parity, 8 data bit, 1 stop bit, no flow control)
Radio data rate	19.2 kbps (25 kHz channel) 9.6 kbps (12.5 kHz channel)
Operating voltage	20 to 50 V
Communication	2 x 10 / 100 Mbit ethernet
Power consumption	10 W

Connectors and Wires

Data and power connector	Motorsport type
Antenna connector	BNC (Jack) 50 Ω

Package Parts

Box

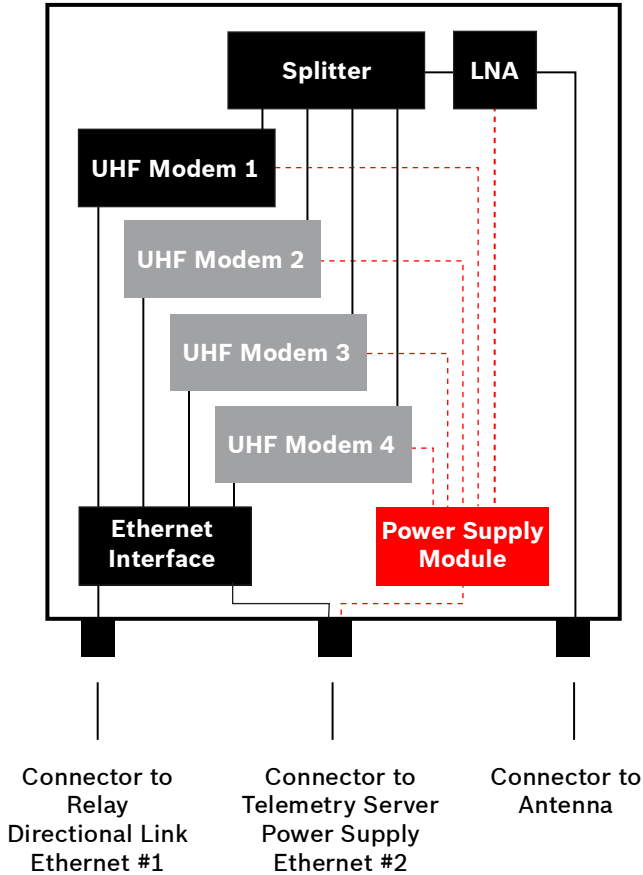
48 V power supply

Ordering Information

Pit Receiver Box

Order number **F 02U V01 460-01**

Dimensions



Scheme Pit Receiver Box

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