

Harsh environment, flexible solution

Quality radio modems for
wireless data communication

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SATEL MCCU-10 / MCCU-10C

SATEL MCCU-10 / MCCU-10C are heavy-duty receiver radio modems intended for use in harsh environments as part of heavy machinery and machine-control related applications.

Both variants are having a dual-frequency radio module with two frequency bands for the client to select and set:

- Licensed 403 ... 473 MHz
- License-free 902 ... 928 MHz

SATEL MCCU-10 comes with an RS-232 interface, while MCCU-10C comes with CAN and RS-232 interfaces. In addition SATEL MCCU-10C is equipped with one RGB LED on side of the device for status indication.

GNSS

SATEL's radio modems and modules offer a first-class solution for GNSS, machine control and smart farming. Accuracy, continuity and availability are essential.

SATEL

Mission-Critical Connectivity

Read more: www.satel.com

SATEL – the world's leading expert and innovator in wireless networking technology. We design, manufacture and offer high quality connectivity solutions that enable secure, mission-critical connections, utilizing the best characteristics of each technology for real-life use-cases.

You can contact us directly or get in touch with your local distributor.

Heavy-duty solution that meets your needs

SATEL MCCU-10 / MCCU-10C are flexible and cost-effective solutions that serves various needs. They feature robust and profound electrical protection; the power and RS-232 lines, as well as the antenna interface, are surge protected. Typical use cases include machine control communication, reception of correction or operational data for industrial systems, off-highway / heavy machinery applications, and integration into telemetry or positioning-related ecosystems.

SATEL MCCU-10C is equipped with an integrated CAN interface, enabling straightforward integration with vehicle and machine control networks in applications where CAN is preferred over traditional serial interfaces.

SATEL MCCU-10 / MCCU-10C are compatible for example with SATEL-EASy+ / -TR4+ / -TR9 based radio modems on corresponding frequencies, as well as several other radio protocols.

SATEL MCCU-10 / MCCU-10C

Frequency range	403 ... 473 / 902 ... 928 MHz
Channel spacing	12.5, 20, 25 kHz @ 403 .. 473 MHz
Spreading method	Frequency hopping spread spectrum @ 902 ... 928 MHz
Modulation	4FSK, 8FSK, 16 FSK, GMSK (403 ... 473 MHz) 2-GFSK (902 ... 928 MHz)
RX sensitivity, typical	-112 dBm / -109 dBm
Serial interface	RS-232
Serial data speed	9.6 ... 115.2 kbps
CAN interface	CAN 2.0B (CANopen, J1939)
CAN data speed	125 ... 1 000 kbps; configurable 120 Ω termination
Radio data speed max.	28.8 kbps / 115.2 kbps
Operating voltage range (-15 % / +20 %)	+7 ... +27.5 Vdc (SATEL MCCU-10) +9 ... +30 Vdc (SATEL MCCU-10C), abs. max. 36 Vdc
Power consumption, RX	Typical 1.3 W, max. 3 W
Interface connector	Deutsch DT04-6P-CL09
Antenna connector	50 Ω TNC female (Contact SATEL for RP-TNC availability)
Size H x W x D / Weight	174 x 95 x 46 mm / <500 g
IP classification	IP67 / IP69K (SATEL MCCU-10) IP66 / IP67 (SATEL MCCU-10C)



Values are subject to change without a notice.

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