

We help you solve challenges

SATEL MCCU-30



Machines meet radio technology



The SATEL MCCU-30 is a versatile, innovative, and robust multi-band vehicle router solution that effectively tackles connectivity challenges in a wide range of applications, including machine control and off-highway vehicle applications.

It excels in providing reliable connectivity by smartly integrating various wireless technologies to tackle even the most intricate scenarios, all within a single unit. Whether you are dealing with a new build or retrofit projects, SATEL MCCU-30 offers adaptability, thanks to its field proven and IP classified mechanics.

SATEL

Mission-Critical Connectivity

www.satel.com

SATEL is 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. We are known for our high quality, expertise, service and support.

Contact us for more information.

Machines meet radio technology



SATEL MCCU-30 is designed to resolve various connectivity challenges in harsh environments:

- ☒ LTE, WiFi, UHF, BT (all can be used simultaneously)
- ☒ Based on field proven mechanics
- ☒ IP67 / IP69K classification
- ☒ Vibration, shock and temperature
- ☒ Connections with surge and ESD (Electrostatic Discharge) protection

Comprehensive Internet solution from machine + other devices:

- ☒ LTE towards Internet and for example to cloud services
- ☒ WiFi to (for example) enable local device remote control
- ☒ BT low energy for BT push buttons and other control devices
- ☒ Local connection to machine control unit via gigabit ethernet cable

GNSS RTK correction data to a moving vehicle with UHF radio based RTK or NTRIP over LTE:

- ☒ Both, UHF and LTE, can be used simultaneously
- ☒ Compatible with existing SATEL radios
- ☒ RTK correction data is forwarded over Ethernet to machine control system

SATEL MCCU-30 consists of following technical functionality:

- ☒ LTE Cat 4 modem, with RX MIMO for LTE
- ☒ SATEL-TR4+ UHF radio module for 403 ... 473 MHz
- ☒ WiFi 802.11a/b/g/n/ac 2.4 GHz and 5 GHz + Bluetooth V5.2
- ☒ Gigabit Ethernet 1000BASE-T
- ☒ Supply Voltage: +9 ... +40 VDC
- ☒ Power consumption:
 - Max. 2000 mA @ 12 VDC i.e. 24 W
 - Typical <10 W
- ☒ Temperature ranges:
 - 20 ... +55 °C (type approval conditions)
 - 30 ... +70 °C (functional)
 - 40 ... +85 °C (storage)
- ☒ Size / Weight: 182 x 187 x 55 mm (L x W x H) / 1550 g
- ☒ Mounting: 4 pcs M6 x 30
- ☒ ESD reinforced / additional and electrical surge (if applicable) in all connectors
- ☒ Casing and connectors (in mated) with IP67 / IP69K classification
- ☒ 32 GB eMMC for storing fault-tolerant filesystem
- ☒ SW updates, OTA or via local connectivity
- ☒ Support for SATEL Secure Remote*) cloud based service
- ☒ Complies international standards: CE, RED, ISO13766-1 ...

Connectors:

- ☒ Antenna connectors: SMA female (LTE Main, LTE Div, WiFi/BT, UHF)
- ☒ Power: 5-pin male A-coded M12
- ☒ Ethernet: 8-pin female X-coded M12

*) SATEL Secure Remote is a cloud-based service designed to enhance the value of multi-band vehicle router by addressing maintenance requirements and simplifying configuration complexities in Machine Control applications. When combined with the SATEL MCCU-30, it presents a comprehensive connectivity solution that prioritizes user-friendliness and peace of mind, providing significant value to customers.

Values are subject to change without a notice.