WORKING OFF HIGHWAY

SATEL MCCU-20:

Mission-Critical GNSS RTK correction solution for centimeter level accuracy on worksite

The SATEL MCCU-20 is a unique all-in-one GNSS RTK correction transceiver to solve connectivity challenges on precise positioning applications in harsh environment:

- Dual-technology: LTE, UHF
- Built-in NTRIP client supports the most common RTK correction data formats, like RTCM 2.x, 3.x
- Serial port (RS-232)
- Based on field proven mechanics with IP67 / IP69K classification

SATEL connectivity solutions are perfect for mission-critical operations. They are used globally in machine control systems for construction and smart agriculture systems such as precision farming. SATEL solutions are also widely used in surveying, mining, forestry, USV and UAV applications.

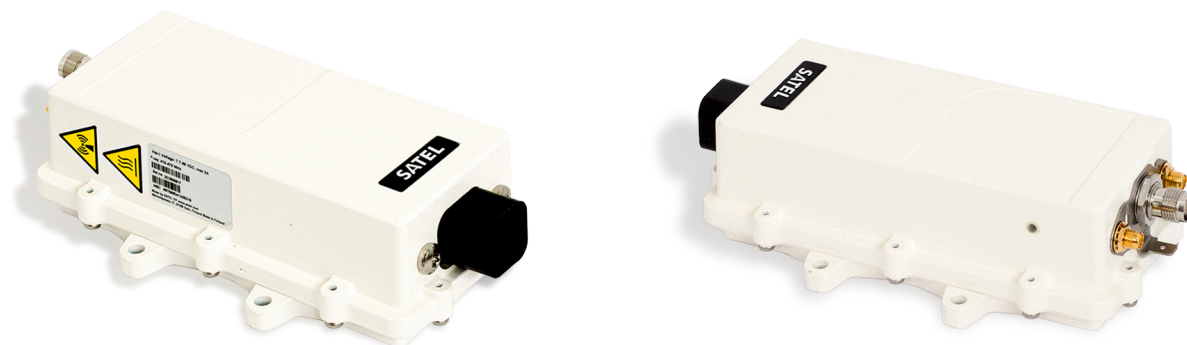# SATEL

Mission-Critical Connectivity

Read more: 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, 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.

ROBUST AND RELIABLE CHOICE

SATEL solution meets the high expectations:
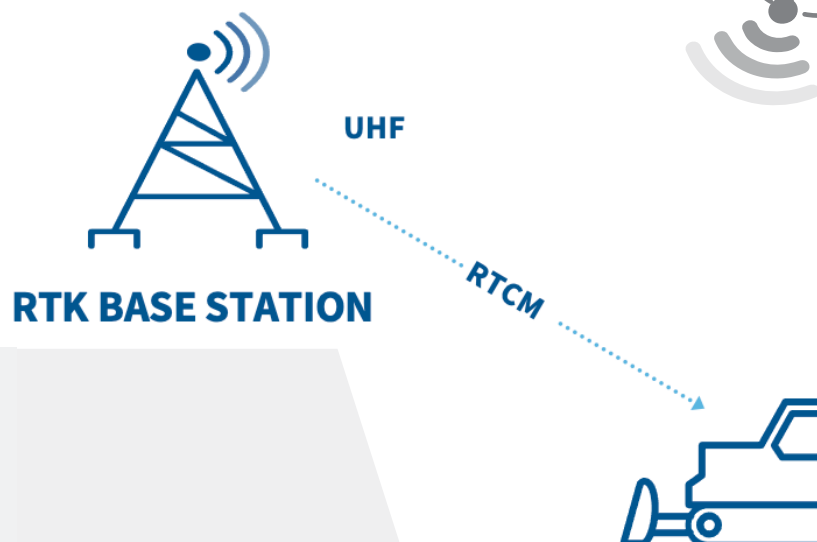Ultra-high reliability with robust mechanical design.

SATEL MCCU-20

Meeting the requirements

The SATEL MCCU-20 has IP67 and IP69K classification and it withstands vibration and shock. It is based on field-proven mechanics, and all the electrical connections are equipped with surge and ESD (Electrostatic Discharge) protection. All-in-one solution:

- Ultra-high reliability
- Robust mechanical design
- Secure connectivity
- Constant and low latency
- Tolerance for very harsh environments

UHF

RTCM

RTK BASE STATION

INTRODUCING OUR SOLUTION

SATEL MCCU-20:
Dual technology GNSS RTK transceiver

The SATEL MCCU-20 is a dual-technology RTK transceiver for receiving RTCM correction data either with UHF radio from local base station or from internet with LTE interface by using NTRIP protocol.

SATEL MCCU-20 has built-in NTRIP client and RS-232 interface, the current GNSS system capabilities can be upgraded to have always the possibility to receive RTCM corrections, no matter whether working in rural areas where no cellular coverage is present, or receiving RTCM corrections from NTRIP caster services when operating in areas where cellular coverage is available.
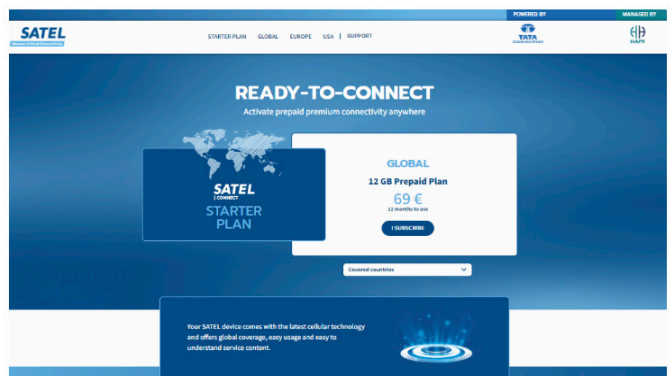
SATEL MCCU-20 is simple, and cost-effective all-in-one RTCM solution to reach centimeter level accuracy!

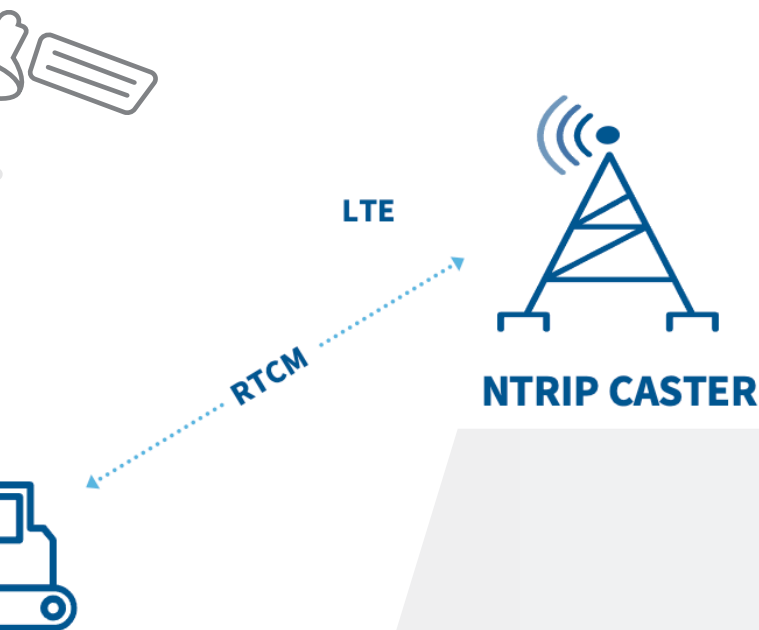## SATEL CONNECT:
Global connectivity Solution

The SATEL CONNECT is a unique cellular connectivity service concept that solves complex cellular subscription and SIM card issues.

Each SATEL MCCU device contains a SATEL CONNECT eSIM solution by default. It is perfect for machine control applications because SIM installations are not needed for the devices that can be in very hard-to-reach locations.

Start using the latest technology of cellular connectivity and activate SATEL CONNECT solution!

*To ease up the SATEL MCCU-20 configuration SATEL offers: **SATEL NARS-BT** Bluetooth device together with **SATEL Command** application (for iOS and Android).*

LTE

RTCM

NTRIP CASTER

SATEL MCCU-20

SATEL products codes: YT0200 YT0205 YT0210 YT0225	EU, with encryption support, with eSIM EU, without encryption support, with eSIM US/CA, with encryption support, with eSIM BR, with encryption support, with eSIM
Two communication modules	LTE (Built-in NTRIP client with NMEA position upstream) and UHF 410 … 475 / 902 … 928 MHz (RTK receiver)
Channel width	12.5 / 20 / 25 kHz @ UHF 410 … 475 MHz
Spreading method	Frequency hopping @ UHF 902 … 928 MHz
Serial interface	RS-232 (TD, RD lines)
Serial port data speed	4.8 – 460.8 kbps
Data format	RTCM 2.x, 3.x
Operating voltage	+9 … +30 Vdc (-15% / +20%)
Temperature ranges	-30°C to +70°C (operational) -40°C to +85°C (storage)
Serial port + power connector	Deutsch DT04-6P-CL09
Antenna connectors, 50 Ohm	2 x SMA female (LTE Main, LTE Div) 1 x TNC female (UHF)
Power consumption	Typ. 2.4W (NTRIP receive) Typ. <1 W (RTK receive)
Size / Weight	174 mm x 95 mm x 47 mm / 520 g
IP classification	IP67 / IP69K (in mated)
Cellular bands	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B4/B5/B6/B8/B19 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B26/B28 LTE-TDD: B38/B39/B40/B41

Values are subject to change without a notice.

SATEL MCCU-20 accessories

SATEL products codes: YA0106 Gainflex 400-435 YA0103 Gainflex 435-470 YA0101 Multiflex 403-473 YA0104 Miniflex 400-435 YA0102 Miniflex 435-470	Half wave antenna, TNC Half wave antenna, TNC Quarter wave antenna, TNC Helix antenna, TNC Helix antenna, TNC
YA0110 NGP 406-430 YA0111 NGP 430-450 YA0112 NGP 450-470	Omnidirect. whip antenna 5/8, 5 dBi Omnidirect. whip antenna 5/8, 5 dBi Omnidirect. whip antenna 5/8, 5 dBi
YA0900 NMO-TNC	Adapter for tripod
YA0463 NMO 406-470	Omnidirect. whip antenna ½, 3 dBi
YA1951 Magnetic mount	NMO-TNCm with 5 m RF cable, IP67
YA4302 B4302N 430-450 YA4502 B4502N 450-470	Omnidirect. whip antenna ½ , 2 dBi Omnidirect. whip antenna ½ , 2 dBi
YA0950 Magnetic mount	Magnetic antenna mount, RP-TNCm for cable
YA0614 Antenna LTE	Tilt & swivel whip antenna with SMA male connector
YC0275 NARS-EP2	Adapter cable, 0.15 m Deutsch DT06-6S-CE06 / D15 female
YI0220 SATEL NARS-BT	Bluetooth device

Best for the job

Mission-critical connectivity is our expertise. We at SATEL help our customers find products that suit their needs the best, keeping in mind the right frequency ranges, compatibility with other system providers and operating environment.

The performance of SATEL technology is consistent and reliable. It is a safe way to ensure availability even in areas with limited coverage or no coverage at all.

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SATEL

Mission-Critical Connectivity