

Receiver **MXbox GNSS**

Technical data

GNSS-receiver:

Receiver Type:	Hemisphere Multi-Constellation GNSS OEM Board; GPS, GLONASS, BeiDou, GALILEO ¹ and QZSS ¹ L1 GNSS, code and carrier phase tracking for increased positioning accuracy and availability
Channels:	372-channel, parallel tracking
EGNOS Tracking:	3-channel, parallel tracking
Update Rate:	1 Hz standard up to 20 Hz optional
Signal Sensitivity:	-142 dBm
Horizontal Accuracy:	0.25 m 95% confidence (DGNSS)* 0,3 m 95% confidence (EGNOS)* 1.2 m 95% confidence (autonomous, no SA)*
Cold Start:	<60 s (no almanac or RTC)
Warm Start :	<30 s (valid almanac and RTC)
Hot Start:	<10 s (valid almanac, RTC, and < 2 hours since last fix)
Reacquisition:	0,5 s

¹ Firmware update required

DGNSS-Service: internal Beacon with 2 Channels
internal UMTS/GSM-Modem Telit (optional)
intern EGNOS
RTCM external (optional)

Controller: ATMEL 644P

Antenna: external antenna combination with GNSS - Beacon TNC-plug

Dimension MXbox: 12 cm L x 12 cm B x 4 cm H

Weight MXbox: 0,335 kg

Casing: robust, dust - and splash-proof (IP65)

Power: external Li-Ionen Akku 2.800 mAh (app. 12 h operating times)

Operating Temp.: -40 °C to 85 °C

Connectors: 2x serial RS 232
1x serial Bluetooth Class1
TNC plug für GNSS and Beacon
Plug „Binderstecker“ M8-Serie 718 for power

Key Features:

- Extremely affordable single frequency, multi-constellation solution with up to 20 Hz update rate
- Uses GPS, GLONASS and BeiDou; Galileo and QZSS ready
- Compact housing with integrated GNSS/EGNOS/Beacon – Receiver
- Fast start-up and reacquisition times allow you to get right to work
- COAST and SureTrack maintain sub-meter DGNS positioning for 40 minutes after correction loss
- Software MXboxKonfig for Hardware settings
- Flexible adaptation to customer requirements by manufacturer