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# O NOSSO CATÁLOGO

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Carlson BRx7



GNSS Receiver Specifications

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Receiver Type:       | Multi-Frequency GPS, GLONASS, BeiDou Galileo, QZSS, IRNSS, and Atlas L-band                                                                                                           |
| Signals Received:    | GPS L1CA/L1P/L1C/L2P/L2C/L5<br>GLONASS G1/G2/G3, P1/P2<br>BeiDou B1i/B2i/B3i/B10C/B2A/B2B/ACEBOC<br>GALILEO E1BC/E5a/E5b/E6BC/ALTBOC<br>QZSS L1CA/L2C/L5/L1C/LEX<br>IRNSS L5<br>Atlas |
| Channels:            | 800+                                                                                                                                                                                  |
| RTK Formats:         | RTCM2.1, RTCM2.3, RTCM3.0, RTCM3.1, RTCM3.2 including MSM, CMR, CMR+                                                                                                                  |
| Recording Intervals: | Selectable from 1, 2, 4, 5, 10 Hz (20 Hz or 50 Hz optional)                                                                                                                           |

Connector Ports

|             |                                                         |
|-------------|---------------------------------------------------------|
| TNC:        | For connecting to UHF radio antenna                     |
| LEMO 5-pin: | For connecting to external power supply, external radio |
| LEMO 7-pin: | For serial port, USB                                    |
| Card Slots: | For Nano SIM card and Micro SD card                     |

Data & Storage

Storage Type: 8 GB internal, SD card up to 32 GB

Environmental

|                        |               |
|------------------------|---------------|
| Operating Temperature: | -30°C ~ +65°C |
| Storage Temperature:   | -40°C ~ +80°C |

Shock Resistance: MIL-STD-81 0G, method 516.6.  
Designed to survive a 2 m pole drop on concrete floor.  
Designed to survive a 1 m free drop on hardwood floor

|                      |                                                                                     |
|----------------------|-------------------------------------------------------------------------------------|
| Humidity:            | Up to 100%                                                                          |
| Vibration:           | MIL-STD-810G, method 514.6E-I                                                       |
| Inflammability:      | UL recognized, 94HB Flame Class Rating (3) 1.49 mm                                  |
| Chemical Resistance: | Cleaning agents, soapy water, industrial alcohol, water vapor, solar radiation (UV) |

Physical

Weight: 1.12 kg (1 battery), 1.25 kg (2 batteries)  
Dimensions: 156 x 76 mm

Accuracy

|                                 |                         |               |
|---------------------------------|-------------------------|---------------|
| Positioning:                    | RMS (67%)               | 2DRMS (95%)   |
|                                 | Autonomous,             |               |
| no SA:                          | 1 1.2 m                 | 2.4 m         |
| SBAS:                           | 1 0.3 m                 | 0.6 m         |
| Atlas (H10):                    | 1,3 0.04 m              | 0.08 m        |
| RTK:                            | 1,2 8 mm + 1 ppm        | 15 mm + 2 ppm |
| Static Performance:             | 1 2.5 mm + 1 ppm        | 5 mm + 1 ppm  |
| Tilt Compensation (within 30°): | 2 cm (with 1.8 m pole)  |               |
| (within 60°):                   | 5 cm (with 1.8 m pole)4 |               |
| Initialization Time:            | < 10 s                  |               |

## Carlson BRx7

### L-Band Receiver Specifications

Receiver Type: Single Channel  
Frequency Range: 1525 to 1560 MHz  
Sensitivity: -130 dBm  
Channel Spacing: 5.0 kHz  
Satellite Selection: Manual and Automatic  
Reacquisition Time: 15 seconds (typical)

### Electrical

Input Voltage: 9 to 28 V DC  
Battery: With removable dual battery, for single  
battery parameter: 7.2 V, 3400 mAh, 24.48 Wh  
Working Time: Up to 12 hours (2 batteries hot swap)

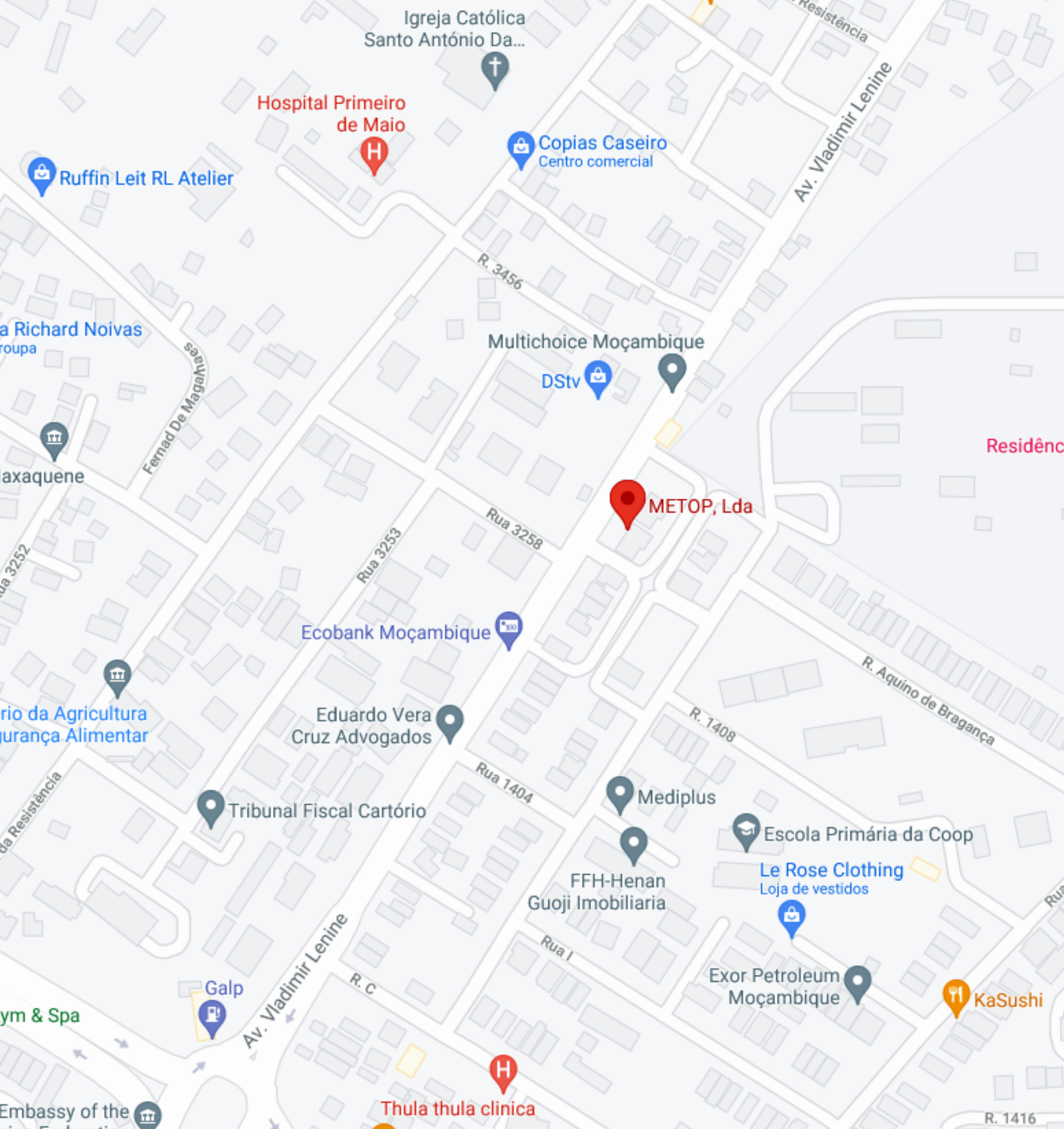
### Communications

Bluetooth: Bluetooth 2.1 + EDR / 4.0 LE  
Wi-Fi: 802.11 b/g  
Network: LTE FDD: B1/B 2/B3/B4/B5/B7/B8/B12/B13/  
B18/B19/B20/B25/B26/B28  
LTE TDD: B38/B39/B40/B41  
UMTS: B1/B2/B4/B5/B6/B8/B19  
GSM: B2/B3/B5/B8  
Radio: Frequency range: 410MHz - 470MHz and  
902.4MHz - 928MHz  
Channel Spacing: 12.5 KHz / 25 KHz  
Protocol: TrimTalk 450S, PCC EOT,  
TrimMark III(19200)  
WebUI: To upgrade software, manage settings, data  
download, via smartphone, tablet or other  
electronic device,configure advanced radio  
settings

### User Interface

Button: Switch receiver on/off, broadcast current  
operation mode and status  
LEDs: Power, Satellite, Data Link, Bluetooth  
WebUI: Supports software updates, receiver status  
and settings, and data downloads via  
smartphones, tablets, or other Wi-Fi  
capable devices.





# CONTACTOS

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