

Atlas L-Band Corrections in Carlson Layout

This is a guide for using the subscription-based service Atlas L-Band corrections in Carlson Layout.

Step #1 Upgrade the BRx7 to the appropriate firmware versions using the link below:

https://web.carlsonsw.com/files/knowledgebase/kbase05.php?action=display_topic&topic_id=1197

Step #2 Atlas Registration

Determine the appropriate service level (Demo, 1 Month, 3 Months, 1 Year) and then click the link below to purchase your subscription or request your Demo: <http://survce.com/atlas>

After selecting the "Subscription Length" you will need to click "Purchase" and fill out the form to submit the request.

Information will be submitted to the Carlson Admin Team who will then generate a license activation code. An email with the license activation code will be sent to your email address once it has been generated which may take 1 to 2 business day.



GNSS Global Correction Service

SurvCE Atlas

Atlas is a flexible and scalable GNSS-based correction service, delivering its correction signals via L-band satellites at accuracies ranging from meter to sub-decimeter levels. Leveraging more than 200 reference stations worldwide and with L-band satellites distributing Atlas corrections, the entire globe is virtually covered with industry-leading convergence performance.

Carlson BRx7 customers using Carlson SurvCE/PC are granted a one-time, 6-month free trial of Atlas. **Claim your demo today** by providing the requested information or purchase below

- Access to Carlson Software's Atlas service
- \$190 for one month
- \$510 for three months (10% savings)
- \$1,280 for one year (44% savings)
- Applicable taxes may be added

Subscription Length

| | | |
|---------|----------|--------|
| 1 month | 3 months | 1 year |
|---------|----------|--------|

Purchase



Step #3 Atlas Activation

The email generated will contain the license activation code; copy this code to paste in the BRx7 WebUI.

- Connect to the BRx7 using WiFi at 192.168.10.1 (using 'admin' and 'brx7' without quotes for username and password).
- Under the Management Tab, paste the license activation code under the 'GNSS Registration' heading and click the Submit button

NOTE:

If the receiver is in Australia and GDA94 is needed, click on Settings and ensure L-Band is Enabled. Next, set the Atlas Datum to GDA94 and click OK.

Settings Working Mode Device Configuration NMEA & Athena Log

Satellites

Galileo Enable Disable

SBAS Enable Disable

L-Band Enable Disable

aRTK Enable Disable

Atlas Frequency Auto

Atlas Datum GDA94

RTK Timeout 30 s

External Serial Port Baud Rate 115200

Step #5 Using Atlas with Layout

When configuring the BRx7 in Layout, in the RTK settings, set the Device to LBand and continue with the connection. Next, tap the Carlson icon in the top-left then choose Settings. Scroll down to GPS Measurement Settings. Ensure Minimum Solution is Fixed and set the Max. Horizontal and Vertical Error Estimates to values that satisfy the survey requirements.

Using the settings above will allow for Atlas to Converge. Convergence takes anywhere from 10-40 minutes. Once convergence is complete, the status will be Fixed and an “A” will appear next to the GPS Status icon in the top-right of the screen.

