

EXCALBER VHF RAIL ANTENNAS ST221, ST221-LP & ST321

Excaliber ST221 and ST321 series of low profile VHF antennas have become the North American standard antenna for railroad locomotive service. They are designed for a wide range of mobile transportation applications such as trains, taxis, police cars, emergency vehicles, buses and trucks. The rugged cast aluminum design ensures consistent dependable performance, relatively inconspicuous appearance and is resistant to damage.



KEY FEATURES

- > **Low profile**
As low as 2.5 inches and suitable for a wide range of compact mobile transportation applications
- > **Durable**
Made from cast aluminum which is resistant to damage under extreme weather conditions

CUSTOMIZABLE OPTIONS

- > N-Female or UHF-Female connector option
- > Extremely low profile option

Models	ST221		ST221-LP	ST321
Frequency Range	138 to 174 MHz	217 to 223 MHz	159.5 to 225 MHz	380 to 520 MHz
Bandwidth	2.5 MHz	6 MHz	2 MHz	15 to 20 MHz
Height	4 in	4 in	2.5 in	2.5 in
Weight	7 lbs	6.3 lbs	3.9 lbs	3 lbs

ST221R, ST321R, ST421R



Excaliber ST221R, ST321R and ST421R are rugged radome-enclosed antennas specifically designed for rail and heavy transport applications. The ST421R covers both the public GSM and railway GSM-R frequency bands. The ST221R and the ST321R cover VHF and UHF bands respectively. The low profile makes them ideal for train use where antenna height is limited.



KEY FEATURES

- > Low profile
- > Suitable for both fixed and mobile installations
- > Proven performance in harsh environments

CUSTOMIZABLE OPTIONS

- > N-Female or UHF-Female connector option
- > Fire retardant radome option

Models	ST221R	ST321R	ST421R
Frequency Range	132 to 174 MHz	380 to 512 MHz	764 to 960 MHz
Bandwidth	1, 1.3, 2 MHz	14 to 20 MHz	42, 64, 90 MHz
Height	4.8 in	3 in	2.1 in
Weight	3 lbs	5 lbs	2.5 lbs