

BST-1000 Series

Industrial Cellular Signal Boosters



Features and Benefits

- Stabilizes and improves low-power 5G signal environment
- Easy integration with Moxa 5G user equipment
- Compact size for easy installation
- -40 to 70°C wide-temperature design

Introduction

The 5G NR (New Radio) Tx and Rx booster is a cellular radio front-end accessory designed to cope with the challenges associated with signal attenuation, interference, coverage, and field site deployment signal cable loss limitations. The booster uses the advanced technology that enhances the performance and coverage of cellular 5G networks from 5G UE (user equipment). It operates by amplifying and extending the transmitting capabilities of the 5G UE. The signal quality and network capacity of the 5G UE will be improved significantly. In addition, this booster accessory enhances user experience and offers greater efficiency in 5G network communication.

Specifications

Cellular Interface

Cellular Antenna Connectors	BST-1110-T models: 3 x SMA (female) BST-1220-T models: 5 x SMA (female)
Frequency Bands Supported	BST-1110-T models: n48, n78 BST-1220-T models: n79

LED Indicators

System	BST-1110-T models: Power, Ready, Tx BST-1220-T models: Power, Ready, T/Rx
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Power Parameters

Source of Input Power	9 to 24 VDC
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Physical Characteristics

Dimensions	116.3 x 96.8 x 24.7 mm (4.58 x 3.81 x 0.97 in)
Housing	Metal
IP Rating	IP30
Weight	BST-1110-T models: 375 g (0.827 lb) BST-1220-T models: 370 g (0.816 lb)
Installation	DIN-rail mounting Wall mounting (with optional kit)

Environmental Limits

Operating Temperature	-40 to 70°C (-40 to 158°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

MTBF

Time	6,570,917 hrs
Standards	Telcordia Standard SR-332

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

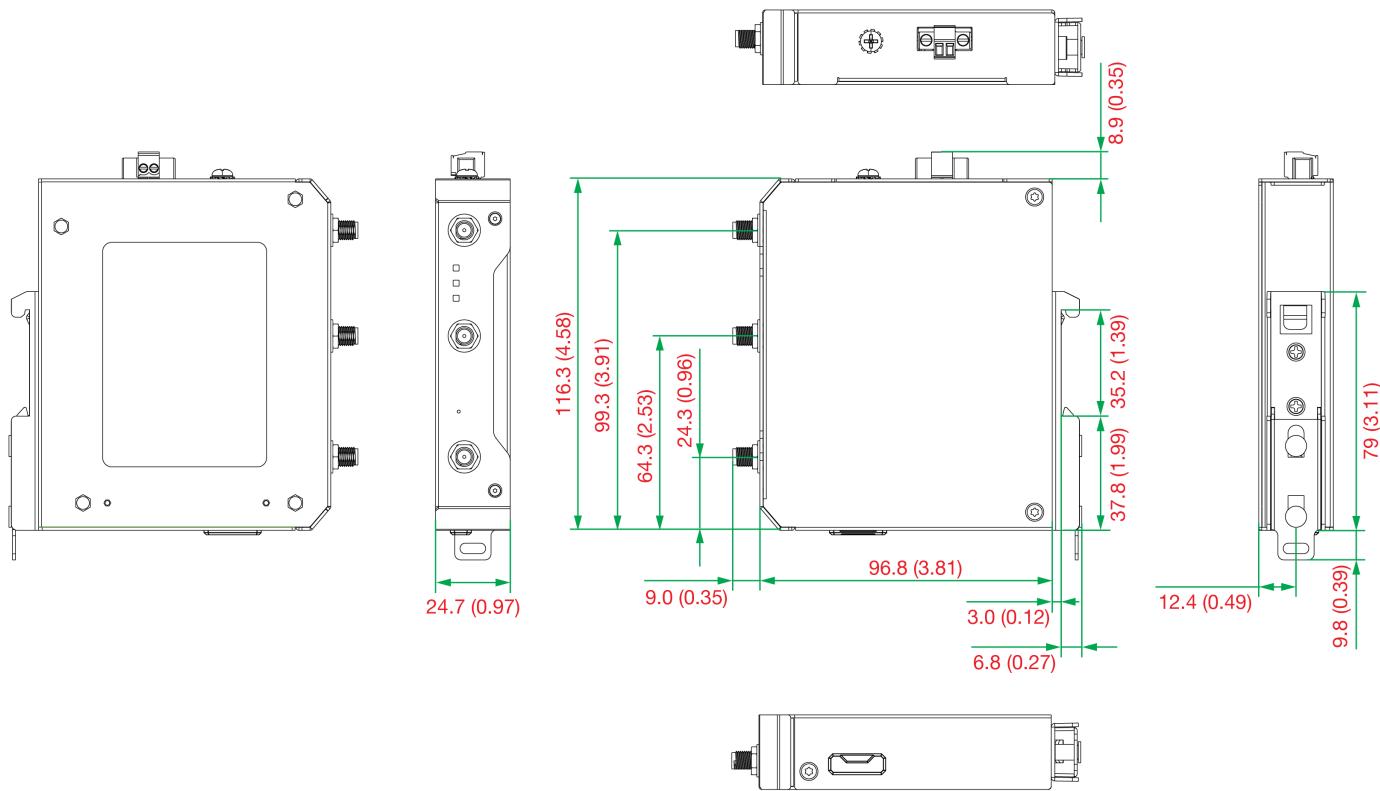
Package Contents

Device	1 x BST-1000 Series
Documentation	1 x quick installation guide

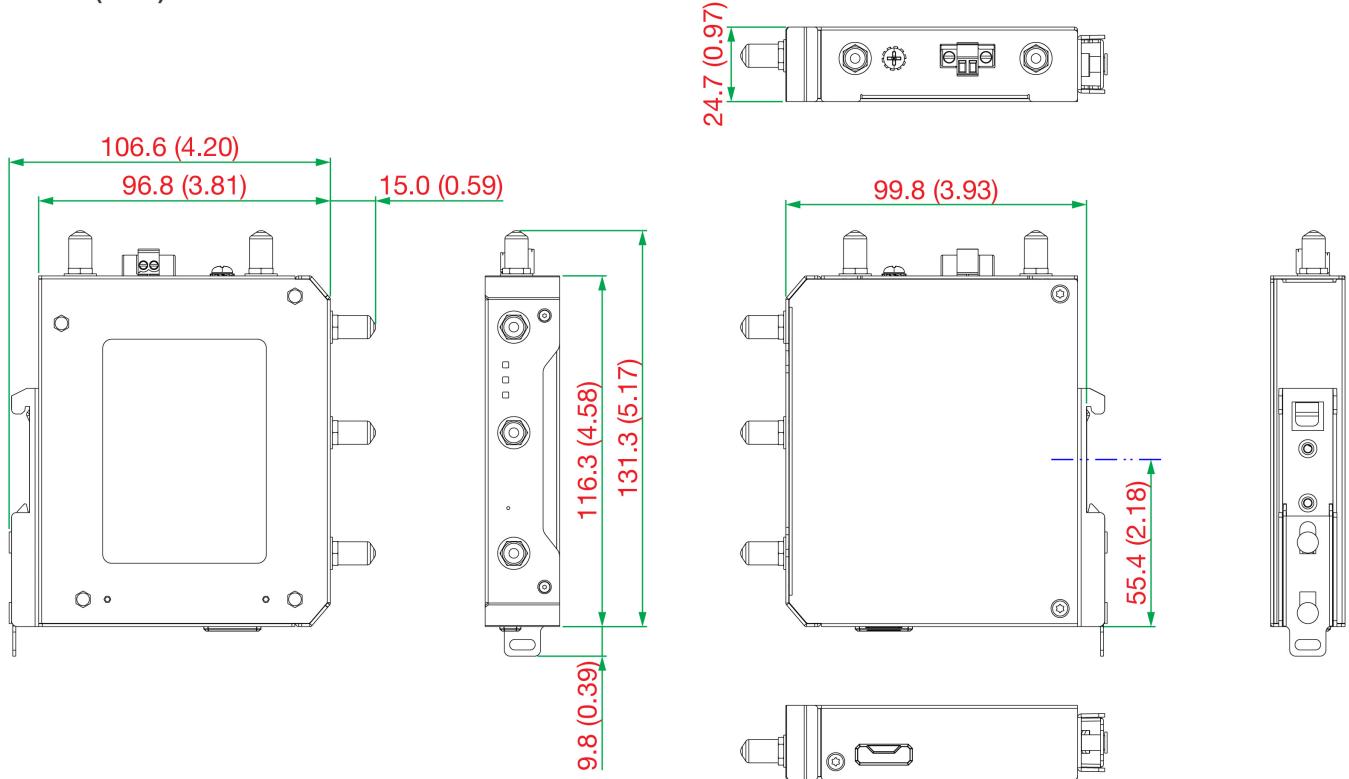
Dimensions

BST-1110-T

Unit: mm (inch)



Unit: mm (inch)



Ordering Information

Model Name	Cellular Bands	Operating Temp.
BST-1110-T	n48, n78	-40 to 70°C
BST-1220-T	n79	-40 to 70°C

Accessories (sold separately)

Wall-Mounting Kits

WK-24-01

Wall-mounting kit with 1 plate (178 x 24 x 10.5 mm)

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