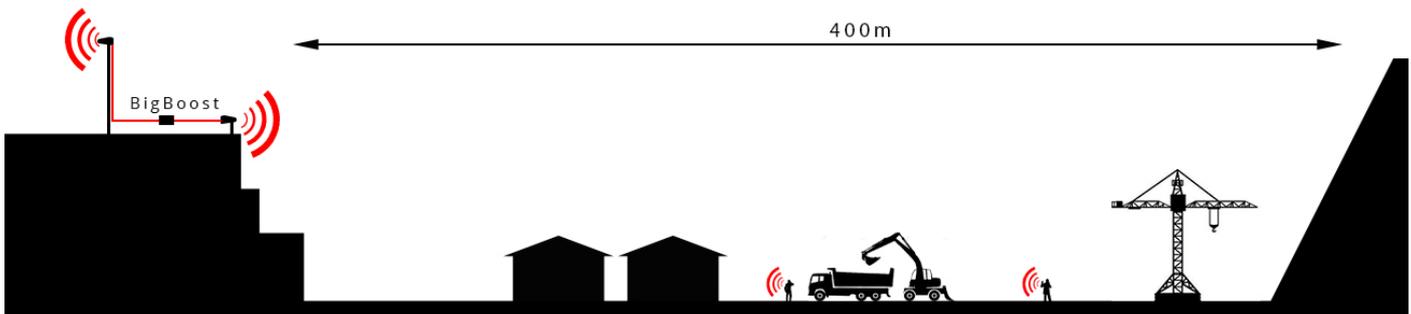


# BigBoost

The BigBoost repeater system boosts mobile signal into large open areas that have little or no mobile coverage. Mines, tunnels, depressions in the land are some examples where a BigBoost can be used. It should be installed on a high location where there is good mobile signal. Here, a donor antenna is installed and pointed at the nearest base station where it receives the signal and sends it to the BigBoost system. The BigBoost adds powerful amplification and sends this high power signal to one or two antennas that point down into the areas that require coverage.



400m

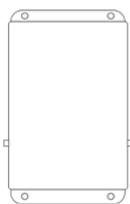


**Features:**

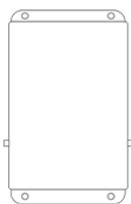
- Coverage: ~400m
- Compatible with all mobile operators
- Voice and data
- Simple and intuitive LED indicator
- Everything included for complete installation
- Networks: 800/900MHz (3G/4G)

Product code	Frequencies (MHz)	Weight	Dims	Power
SD-BIG-LG + SD-RP1002-LG	800/900	1.0kg	32X19X3.5cm	12V,2A

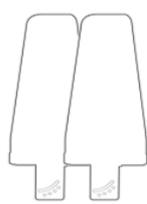
## Standard kit includes:



BigBoost



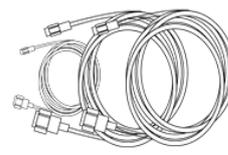
StellaHome



2X Antennas



Power Supply



Cable SD400 X3  
20m,10m,2m



5dB  
attenuator

The BigBoost system consists of the Bigboost + StellaHome amplifier - see diagrams below.

Do not use StellaDoradus repeaters with non StellaDoradus equipment. Stelladoradus repeaters operate silently on the operators network. By using our equipment with competitors equipment you break this control system and could potentially harm the operators network. Doing so will void warranty.

Bands	B20	B8
Frequency Downlink	791-821	925-960
Frequency Uplink	832-862	880-915

## Amplifier Specs

Coverage	400m
Gain	Uplink Gp: 20dB      Downlink Gp> 20dB
Pass band ripple	<4dB
I/O impedance	50 ohm/SMA female connector
Max up/down signal strength	0dBm / 18dBm
Ambient Temperature	-30°C to +70°C
Power supply input	110 - 240V AC
Oscillation Control	Automatic
AGC Level Control:	Automatic <sup>1</sup>
Uplink Switch On	Yes <sup>2</sup>
AGC Range	30dB
Surge protection	SMA connectors DC grounded, 12V DC port MOV protected

## Antennas                      Outdoor yagi

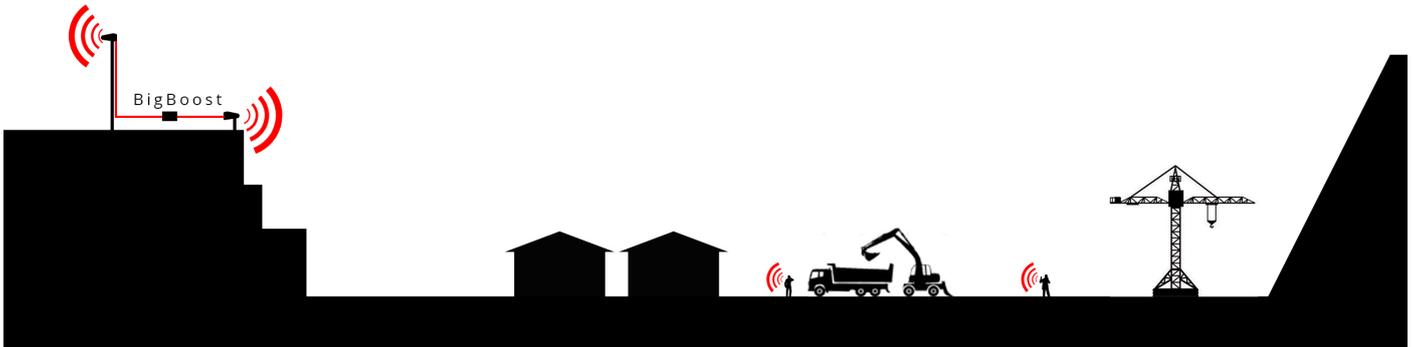
Nominal Gain	10dBi
3dB beam Pattern	60° x 50°
Bandwidth	700MHz - 2700MHz
VSWR	<1.5
Front to Back Ratio	> 20dB
Polarization	Vertical
Power Rating	50W
Impedance	50-OHM
Termination	N-Female
Cross Pol. Discrimination	-20dB
Dimensions	442 x 205 x 62mm
Weight	1.2kg
Wind velocity	140km/hr
Working temperature	-40°C to +65°C

<sup>1</sup>Automatically adjusts during installation. Thereafter, automatically adjusts for seasonal variation in pathloss between the base station and the outdoor antenna.

<sup>2</sup>The uplink amplifiers switch off when the repeater is not in use. This reduces the uplink noise to almost zero. When the repeater is in use (phone call or data session), the uplink amplifiers switch on for the duration of the call/ data session only.

Note: Specifications subject to change without notice.

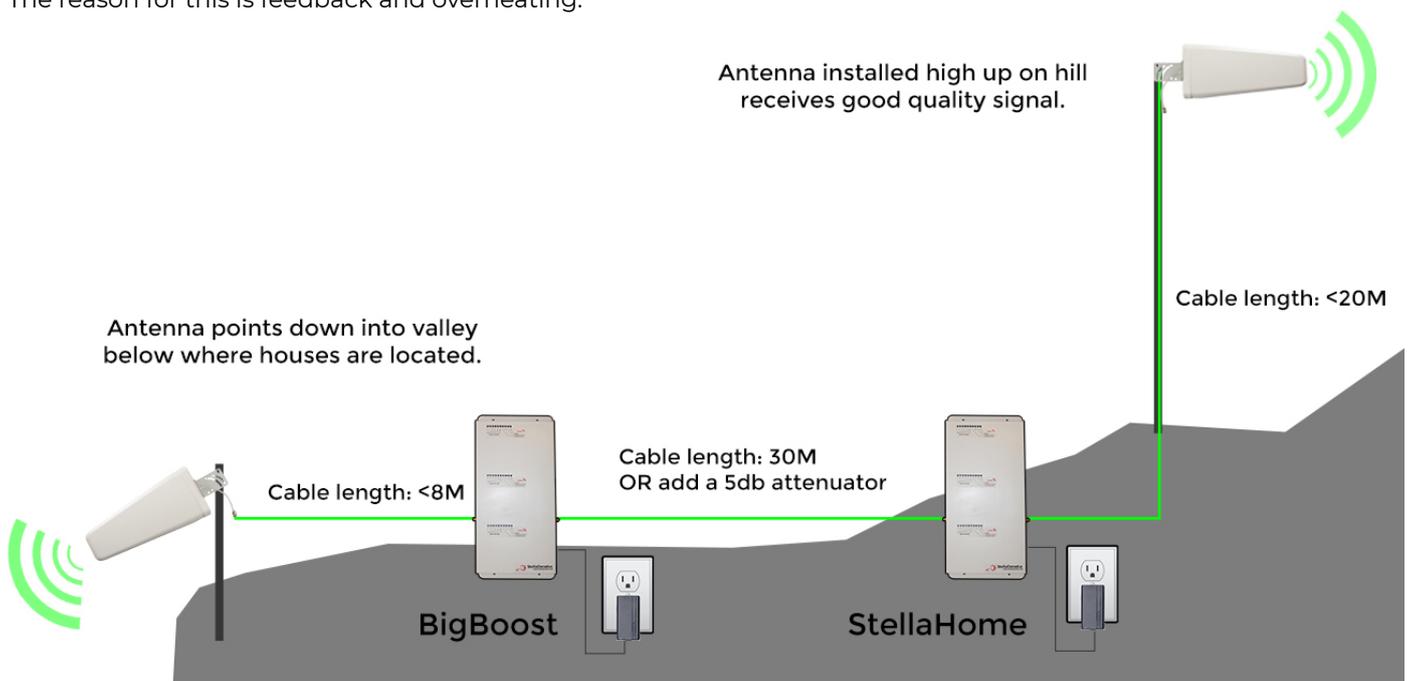
## Installation



The Yagi antenna that points towards the operators cell tower must be pointing roughly 180DEG in the opposite direction to the antennas that point down into the areas that require coverage. This is to reduce feedback between the antennas.

The BigBoost unit and the StellaHome unit as shown in the diagram above MUST be placed in separate waterproof enclosures. DO NOT PLACE THEM IN THE SAME BOX.

The reason for this is feedback and overheating.



Connect the 2m cable plus 5dB attenuator between the StellaHome and the BigBoost.