

Stella Doradus

SOHO

The Stella SOHO repeater provides mobile signal coverage in homes and small offices.

STELLA DORADUS

SOHO Series



MODEL	WEIGHT	DIMS CM	FREQ (MHZ)	PORTS
SOHO R5	3KG	35x30x4.3	700/800/900/1800/2100	1
SOHO R2	1KG	25x17x3.5	800/900	1
SOHO R1	0.6KG	15x16x3.5	800	1

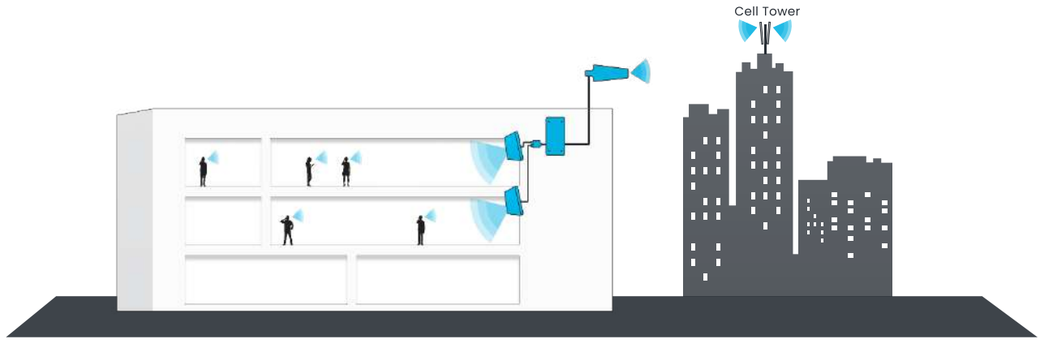
The Stella SOHO repeater amplifies the signal from all mobile operators, enabling clear voice calls in small offices, as well as supporting the fastest internet speeds : 5G/4G/3G/2G.

Features:

- Covers 2-5 Rooms.
- Amplifies all mobile operators.
- Clear voice calls and high speed 4G/5G data.
- LED indicators.
- PortSense - Automatically tests cables and connectors.
- Fully compliant to the Ofcom UK regulations. Listed on the Ofcom website.

How it Works

An external antenna, installed on the roof of the building, receives the signal from all mobile operators. This signal is passed inside the building to a repeater, which amplifies the signal and passes it to all desired areas in the office via multiple indoor antennas. All mobile phones and 5G/4G and GSM devices will now have full signal for calls and fast data.





Internal antenna



SOHO repeater



External 12m cable SD240

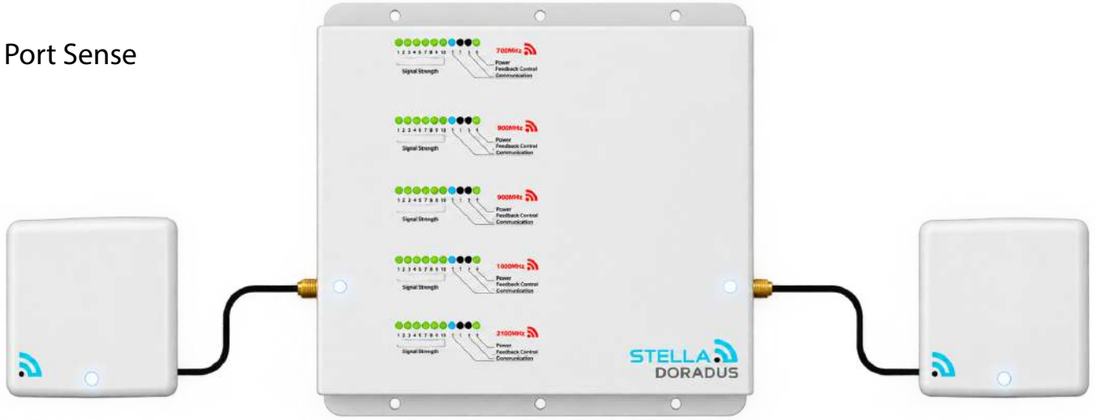


External Antenna

Do not use Stella repeaters with non Stella equipment.

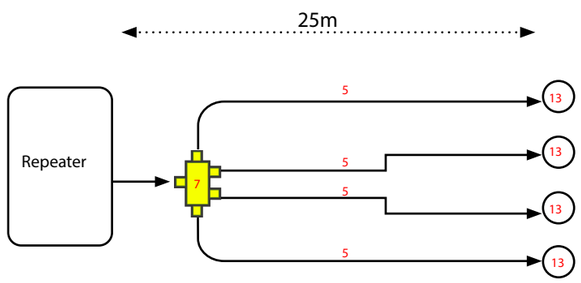
Stella repeaters operate silently on the operators network. Using Stella equipment with other manufacturers equipment will break this control system and could potentially harm the operators network. Doing so will void warranty.

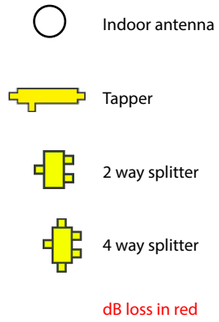
Port Sense



With PortSense, the repeater detects when an antenna is connected to the indoor and outdoor antenna port. Our new smart antennas have an imbedded white LED. There is a corresponding white LED on the port of the repeater. These 2 LEDs will illuminate when the connectors on the cables are terminated correctly and there is a good connection between the repeater and antenna. If the LEDs do not light up, then the cables must be checked.

Adding extra antennas - layout options





Specifications

*See models above for exact bands

EU Bands	B28	B20	B8	B3	B1	
Downlink	758-788	791-821	925-960	1805-1880	2110-2170	
Uplink	703-733	832-862	880-915	1710-1785	1920-1980	

Amplifier Specification

Coverage	2-5 Rooms
Gain	Uplink Gp: 60dB Downlink Gp> 60dB
Pass band ripple	<4dB
I/O impedance	50 ohm/SMA female connector
Max up/down signal strength	20dBm / 10dBm
Ambient Temperature	-30ºC to +70ºC
Power supply input	110 - 240V AC
Power supply output	12v DC
Oscillation Control	Automatic
AGC Level Control:	Automatic[1]
Uplink Switch On	Yes[2]
AGC Range	0 to 30dB
Surge protection	SMA connectors DC grounded, 12V DC port MOV protected

Antennas	Indoor Panel	Outdoor Yagi
Nominal Gain	6.4dBi / 9.4dBi	10dBi
3dB beam Pattern	60º x 60º	60º x 50º
Bandwidth	700MHz - 2700MHz	700MHz - 2700MHz
VSWR	<1.4	<1.5
Front to Back Ratio	> 20dB	> 20dB
Polarization	Vertical	Vertical
Power Rating	50W	50W
Impedance	50-OHM	50-OHM
Termination	SMA male / N-Female	N-Female
Cross Pol. Discrimination	-20dB	-20dB
Dimensions	210 x 180 x 43mm	442 x 205 x 62mm
Weight	0.68kg	1.2kg
Wind velocity	126km/hr	140km/hr
Working temperature	-40ºC to +65ºC	-40ºC to +65ºC

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