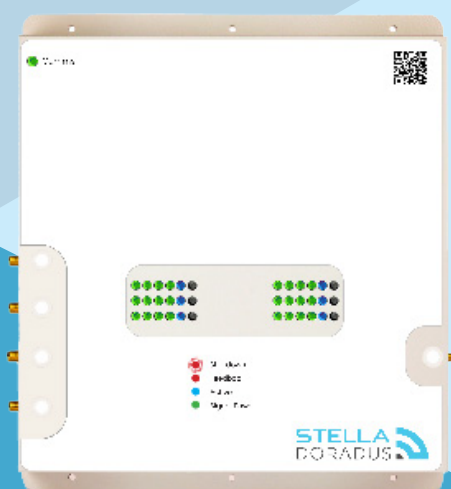
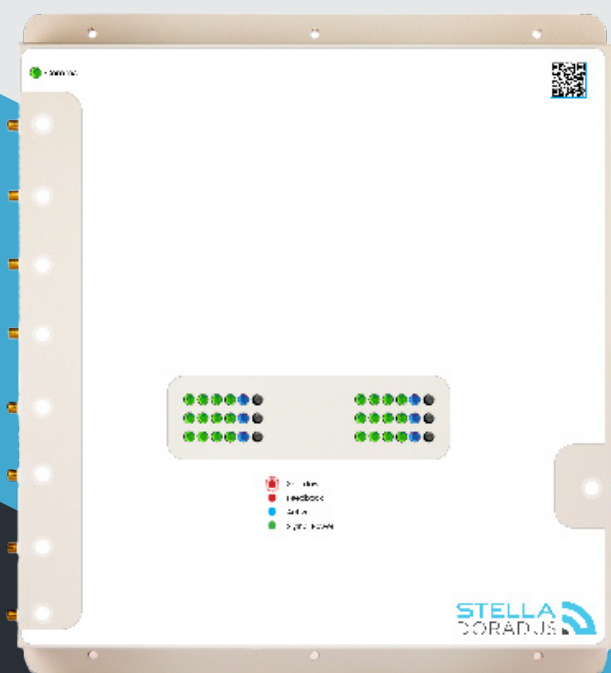




Stella Doradus

Octo iRepeater

Brochure and User Guide
for iR6-OC and iL6-OC



Stay
Connected.

Amplify
Your Signal.

OCTO – BROCHURE & USER GUIDE

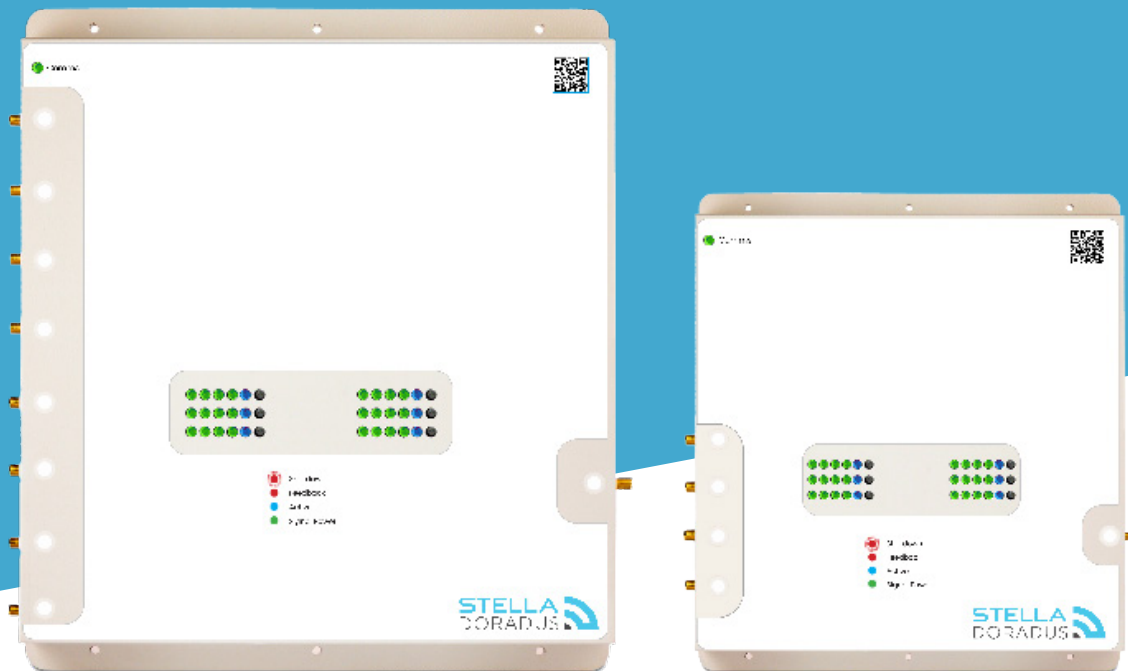
Product Overview

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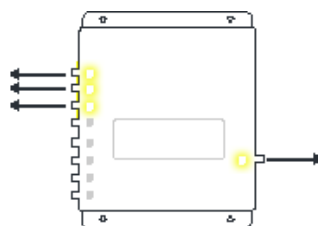
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The OCTO iRepeater



MODEL	WEIGHT	DIMS CM	SKU	BANDS
Octo master	4KG	39x34x4.8	iR6_OC	28/20/8/3/1/7
Octo remote	2.8KG	31x26.5x4.8	iL6_OC	28/20/8/3/1/7



AMPLIFY ALL OPERATORS

Amplify the signal from all operators for 5G, 4G, 3G and 2G.

PORTSENSE

PortSense Technology confirms visually that cables and antennas are correctly connected.

REMOTE MONITORING

Monitor signal and repeater performance on StellaControl platform. Troubleshoot issues and adjust settings to ensure optimal coverage and reliability.

Specifications

EU Bands	B28	B20	B8	B3	B1	B7
Downlink	758-788	791-821	925-960	1805-1880	2110-2170	2620-2690
Uplink	703-733	832-862	880-915	1710-1785	1920-1980	2500-2570

Master Specification

Coverage	With 8 Remotes - up to 40 rooms
Gain	MA: 40dB , RU: 40dB
Pass band ripple	<4dB
I/O impedance	50 ohm/SMA female connector
Max up (MA)/down(RU) signal strength	20dBm / 10dBm
Ambient Temperature	-30°C to +70°C
Power supply input	110 - 240V AC
Power supply output	48v DC (on the Master requires the PSU)
Oscillation Control	Automatic
AGC Level Control:	Automatic ¹
Uplink Switch On	Yes ²
AGC Range	0 to 60dB
Surge protection	SMA connectors DC grounded, 12V DC port MOV protected
Port Sense	Yes
Embedded modem	Yes
Cell Scanning	Yes

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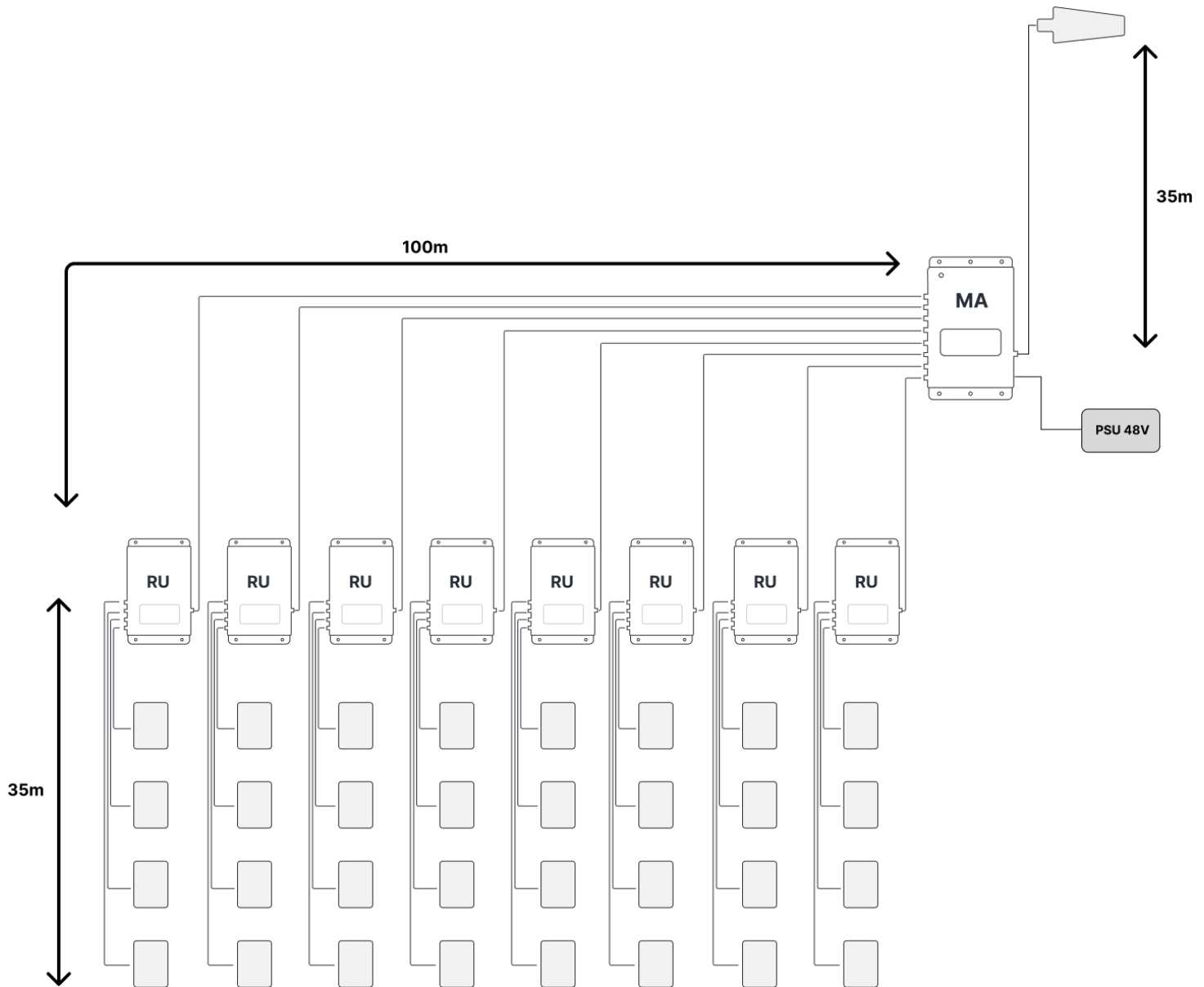
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Modular System



Plug and Play Buildings of Any Size

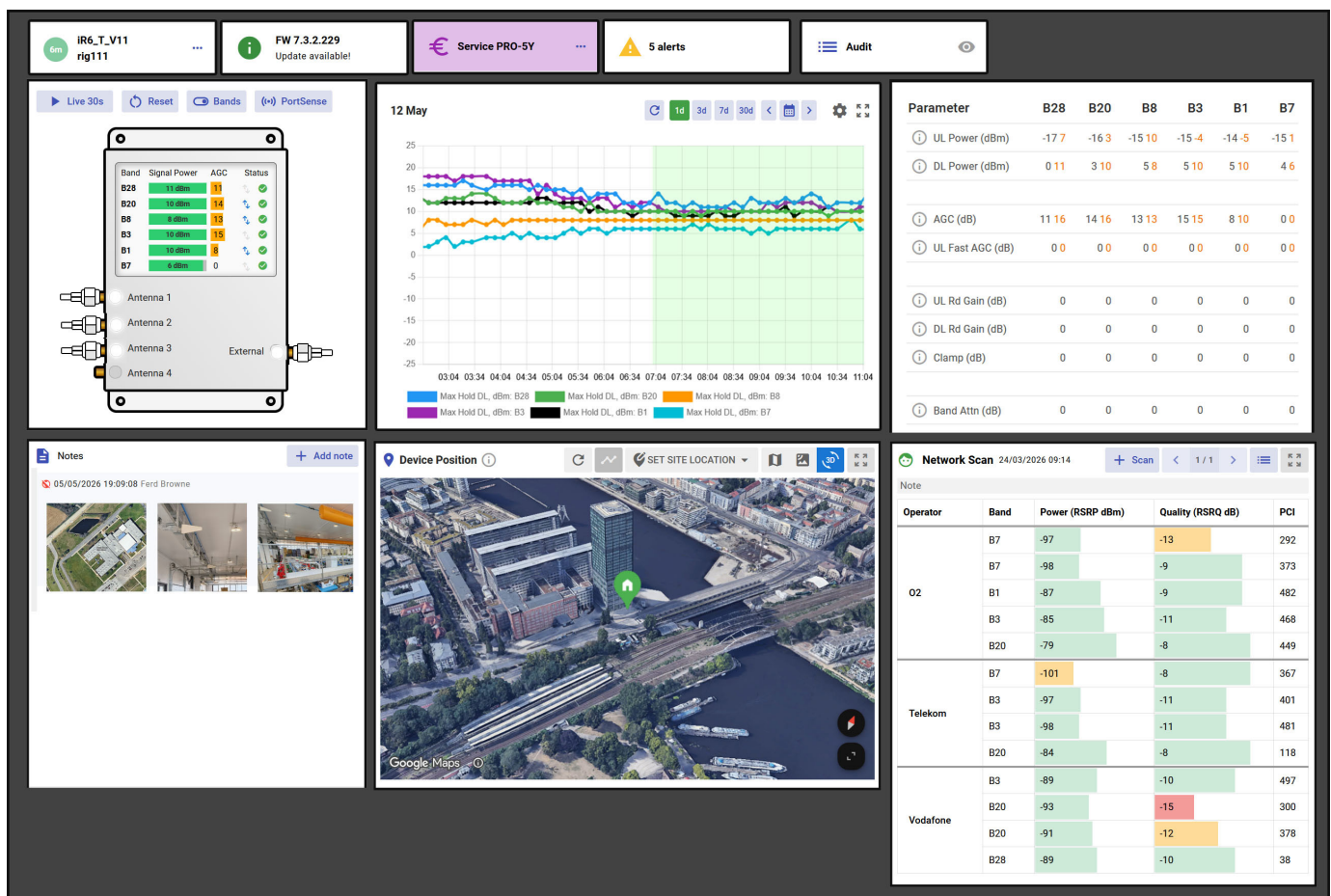
The Octo iRepeater is part of a modular system which, by adding Remote Units, can provide coverage in large, multi-storey, multi-zoned buildings.

No local power required at Remote Units – Remote Units are powered directly by the Master Unit over the coaxial cable, eliminating the need for electrical outlets at each remote location.

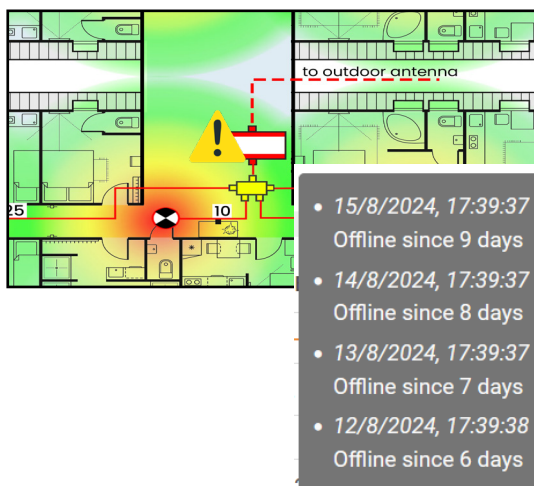
StellaControl monitoring platform

StellaControl is our cloud based monitoring platform where repeaters are stored and managed remotely. Many metrics are recorded, including:

- The status of the repeater.
- Remote scans of the signal from the operator.
- History graphs.
- Alerts are sent to the client if there are any changes to the RF



ALERTS



Email alerts are automatically sent to the installer if there are any changes to the system, eg. an amplifier is disconnected, or the operator installs a new base station antenna in the vicinity. This forewarns the installer/Stella of potential issues and to take corrective action.

Cell Scanning

The Octo repeaters do **automatic weekly scans of the signal from all operators** outside the building.

The history of the performance is therefore recorded and this ensures the signal is optimised at all times.

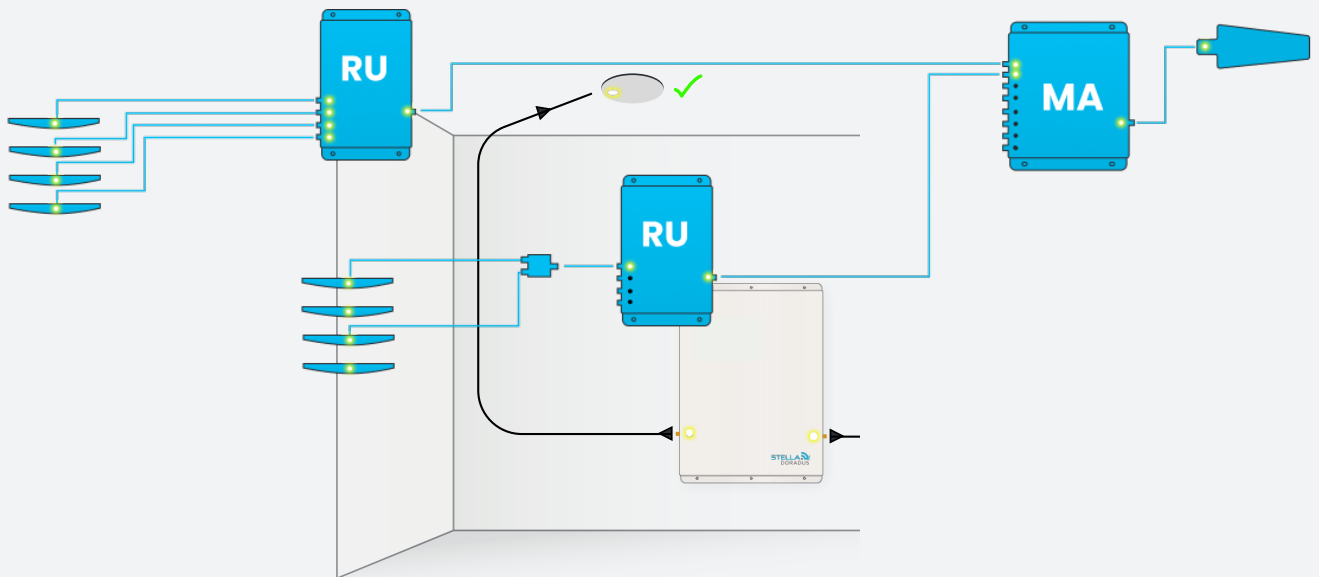
This is very essential for any post installation queries.

EMBEDDED CELLULAR MODEM

The Octo has an internal embedded cellular modem that automatically connects to StellaControl (our online monitoring platform), without the need to connect an ethernet cable. This means the repeater is always accessible remotely for monitoring.

Operator	Band	Cell ID	Power (RSRP dBm)	Quality (RSRQ dB)	PCI
EE	B3	8633346	-86	-9	101
	B3	8633349	-91	-15	435
	B20	2572812	-101	-14	57
O2 (UK)	B1	2551932	-87	-14	246
	B3	140351602	-109	-16	138
	B3	140351346	-104	-14	346
	B8	2551930	-85	-13	246
	B20	2551928	-85	-15	246
Three	B1	13456968	-90	-14	481
	B3	13456897	-91	-13	61
	B20	13456903	-76	-10	82
	B28	13456988	-71	-8	292
VodafoneThree	B1	2551832	-85	-14	246
	B8	2551830	-81	-9	246
	B20	2551828	-84	-15	246

PortSense

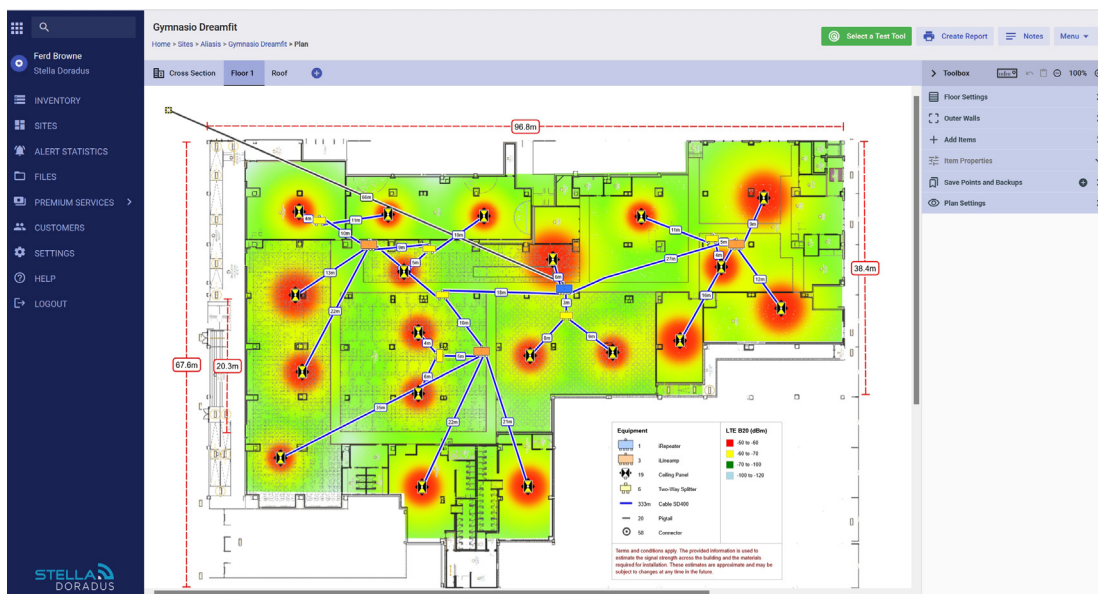


OUR PORT SENSE TECHNOLOGY (PATENT PENDING)

In order to test the cable connections between the repeater and the antennas, there are 5 LEDs on the repeater and corresponding LEDs on the indoor antennas.

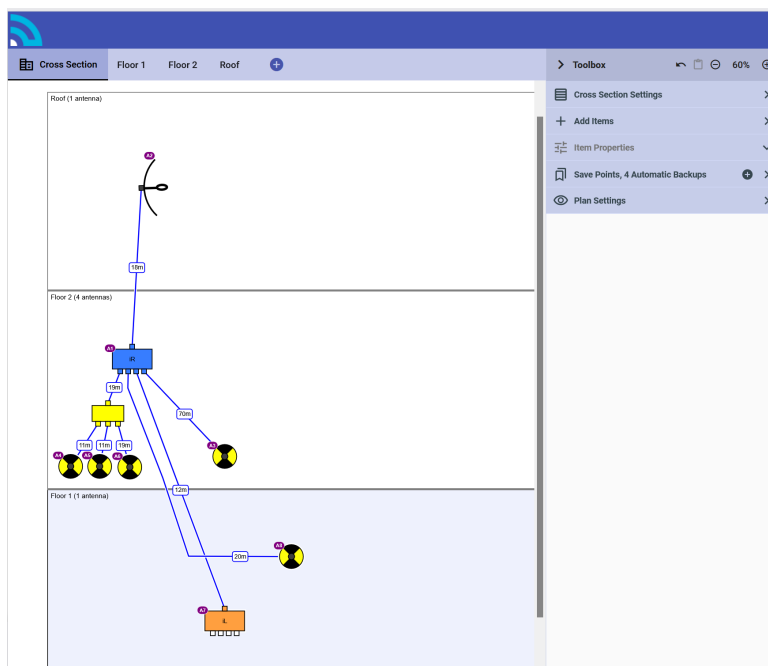
These LEDs light up when the antennas are correctly connected to the repeater. This assures the installer that the antennas are outputting signal and there are no faults in the cables. They can also be used to show which antenna is connected to which port on the repeater.

Stella Planner



STELLA PLANNER

Repeater systems can be designed with the StellaPlanner. Building plans are uploaded and antennas placed in the desired locations. The tool calculates signal power and RF losses in the design. All projects are stored in a personalized account on StellaControl. Stella helps you to design the optimal repeater system.





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