

i-Repeater

Control and monitor all your repeaters through the cloud



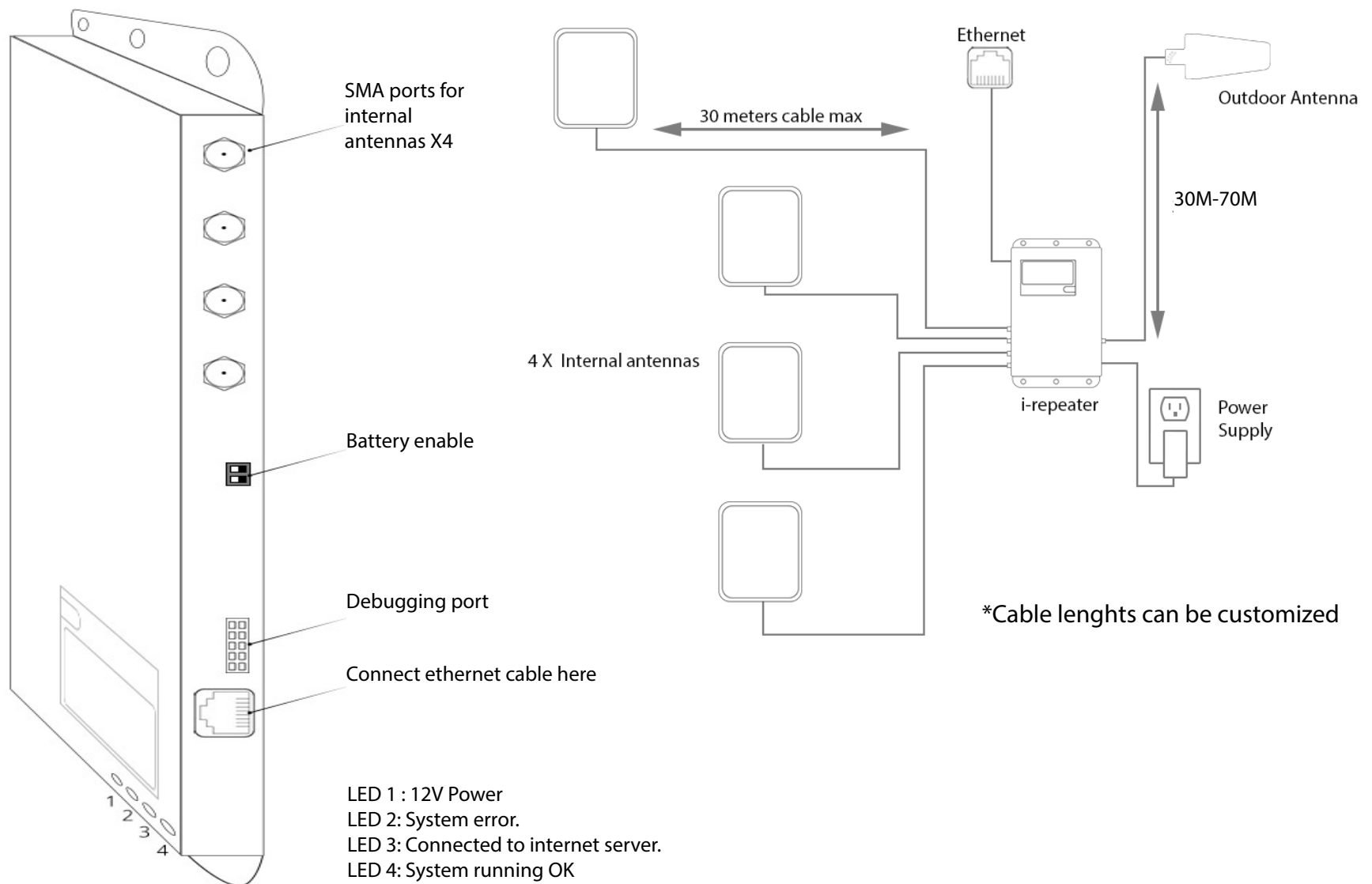
GSM , H+, 4G

800/900/1800/2100/2600MHz

Cloud control and monitoring

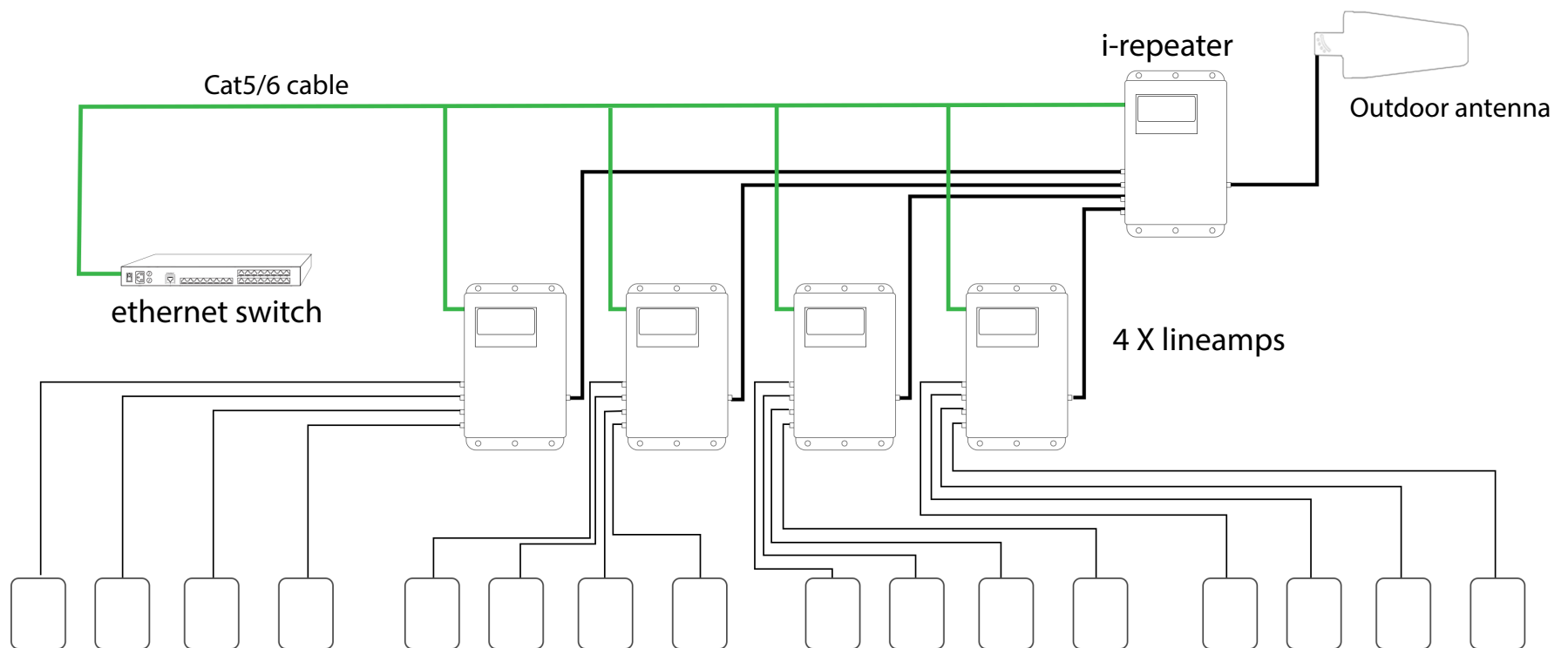
Touch screen interface

Diagrams



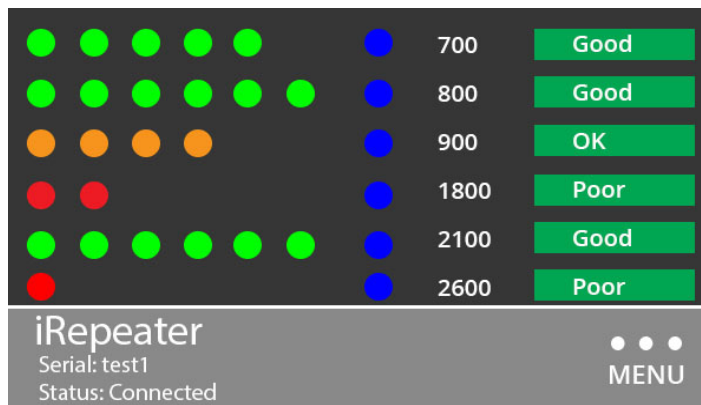
Example system for a large building

iRepeater and 4 X lineamps all internet controlled
 This system can be extending many times with more lineamplifiers.



16 internal antennas - Coverage 1000m2 X 16

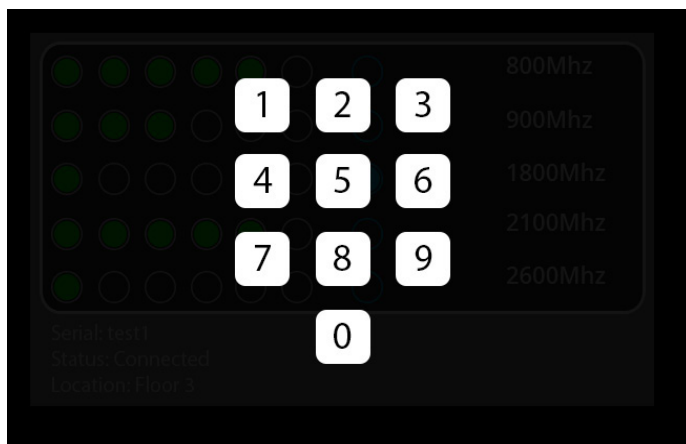
TouchScreen LCD Panel



Main page:

Green signal LEDs = downlink signal strength .

Blue LED = Uplink switch on

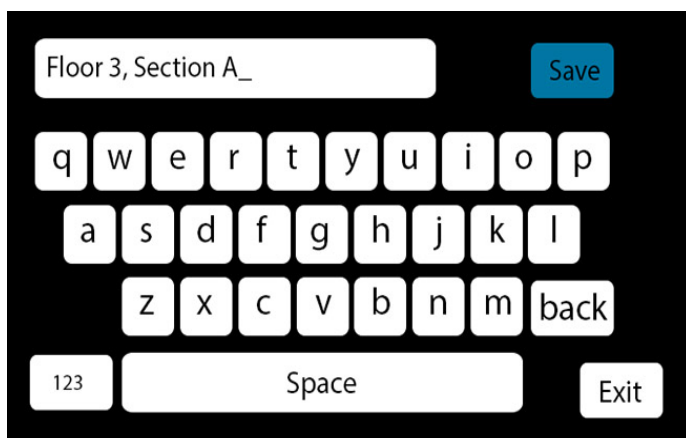


Set up pins:

Admin , installer, user pin code

Different levels of access

Default access pin is: 8888



Print location of repeater.

Print the location of the repeater in the building/ship. This information will then be seen on the online dashboard.

Freq(MHz) / Band	800	900	1800	2100	2600
Power up (dBm)	-15	-15	-15	-15	-15
Power dn (dBm)	-30	-30	12	-30	-30
Temp up (dB)	5	5	5	5	5
Temp dn (dB)	0	0	0	0	0
Phone up (dB)	0	0	0	0	0
mgain up (dB)		0	0	0	0
mgain dn (dB)	0	0	0	0	0
Osc up (dB)	0	0	3	0	0
Osc dn (dB)	0	0	8	0	0
Skew (dB)	0	0	0	0	0
Bands	8	B8	B3	B1	B7

Decibel page:

See the internal dB values in the repeater.

Useful for in depth diagnostics.

ON/OFF	Attenuation	dB	Band/Freq
☒ ON	<input type="range"/>	0	B20 800
☒ ON	<input type="range"/>	0	B8 900
☒ ON	<input type="range"/>	9	B3 1800
☒ ON	<input type="range"/>	0	B1 2100
☒ ON	<input type="range"/>	0	B7 2600

Reset Save Exit

Control page:

Switch on / off bands

Attenuate bands

Product name:	i-Repeater5
Serial:	test
Version:	v3.3
Installer name:	-
Message:	-
DHCP IP:	192.168.1.23
AWS IP:	84.143.34.11
Long Reboot Time:	1440
SW:HW:RB:WDT	0 : 3 : 4 : 1
Temperature:	50
Errors Total DNS	0 : 0
ON Time:	1:26
Message Frequency	10
Ship:	0
EEPROM errors:	0
MAC address:	ea-34-23-2d
PORT:	8883

Info page:

Data about the i-repeater.

Online Dashboard Panel - StellaCloud



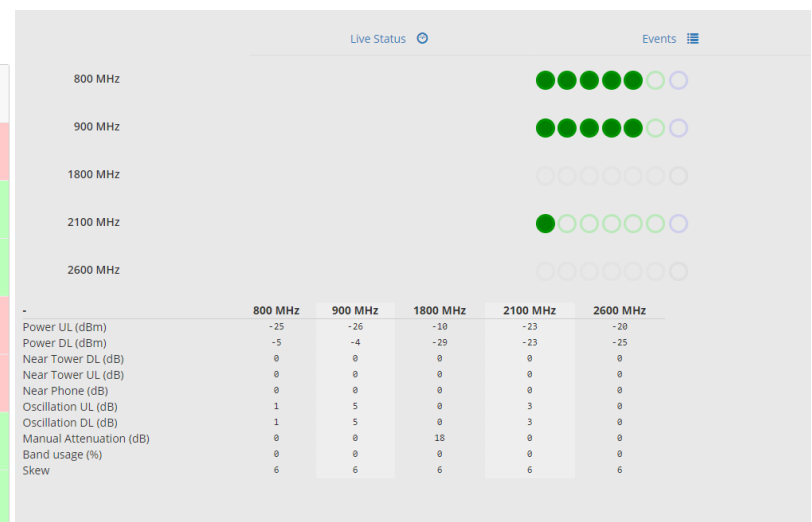
Login to:

www.stellacontrol.com

- 1) Create a new places and simply add your new repeaters.
- 2) Monitor and control all your places / repeaters.

 The big Hotel

	BANDS(MHZ)	SERIAL	INSTALLED DATE	LOCATION	
☐	LOST 38 mins 25 secs ago	sardine158 (R-4)	06/09/2018	-	⋮
☐	LIVE 1 sec ago	starling72 (R-4)	06/09/2018	-	⋮
☐	LIVE 1 sec ago	panda17 (R-4)	08/09/2018	-	⋮
☐	LOST 8 days 2 hrs ago	jaguar163 (R-4)	06/09/2018	-	⋮
☐	LOST 8 days 2 hrs ago	goat146 (R-4)	06/09/2018	-	⋮
☐	LIVE 2 secs ago	ant214 (R-4)	06/09/2018	-	⋮
☐	LIVE 1 sec ago	snail169 (R-4)	08/09/2018	-	⋮



Alerts:

- Get alerted by email if there is any issues with your devices.

Remote Control from any computer/ phone:

- Switch On/Off, individual bands of any repeater.
- Switch off RF for one or all repeaters in a building/ship.
- Attenuate individual bands in any repeater by up to 18dB's.

FloorPlan tool

- Design your repeater systems virtually on our floorplan tool before you do installation.

Monitor:

- Up/Downlink Power
- Up/Downlink Gains
- Up/Downlink AGC

Specification



Model number:	i5-LGDWH
Frequency	800/900/1800/2100/2600
Remote monitoring:	Yes

Frequency Specifications:

Frequency bands(MHz):	(791-862) + (880-960) + (1710-1880) + (1.92-2.17) + (2500-2690)
Coverage:	(1000m ² per antenna X 4) = ~15 rooms
Number of People:	Unlimited
Gain:	Uplink Gp > 60dB Downlink Gp> 60dB
Pass band ripple:	< 4dB
I/O impedance:	50 ohm/SMA female connector
Max uplink/downlink signal strength:	20dBm / 10dBm
Ambient Temperature:	-30°C to +70°C
Power supply input:	110 - 240V AC
Power supply output:	12v DC
Oscillation Control	Automatic
Level Control:	Automatic*
Uplink Switch Off	Yes**
AGC Range	30db
Surge protection	SMA connectors DC grounded, 12V DC port MOV protected

Antenna Specifications:

	Indoor antenna	Outdoor antenna
Nominal Gain	6.4dBi / 9.4dBi	10dBi
3dB beam Pattern	60° x 60°	60° x 50°
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
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	-40°C to +65°C	-40°C to +65°C

Power Supply Specification:

AC	100-240V	50-60Hz
DC input	12V	5A
Typical power usage		60W

Mechanical Specification:

Length	43cm
Width	30cm
Depth	3.8cm
Weight	2kg
Mounting	6 x 5mm holes for mounting

* Automatically adjusts during installation. Thereafter, automatically adjusts for seasonal variation in pathloss between basestation and outdoor antenna.

** The up-link amplifiers switch off when the repeater is not in use. This reduces the uplink noise to almost zero. When the repeater is in use (eg. phone call being made), the up-link amplifier switches on for the duration of the call and a blue LED switches on indicating this is the case.

Note: Specifications subject to change without notice.