

SimRush

5G Range
Product Brochure

Introduction to SimRush

There are many reasons to choose SimRush for your home, businesses and vehicles.

SimRush combines a cloud based management platform with independent Static Public IP addressing and robust 4G / 5G hardware to deliver outstanding broadband service.

SimRush enables delivery of superfast broadband to home and businesses that are unable to get superfast broadband via fixed line, wireless or satellite. It does not need a copper phone line to operate and can be used to provide VoIP services.

It is used as a backhaul for IoT/M2M devices, for the assurance of reliable failover for business continuity, to utilise temporary or seasonal connectivity and to track assets in vehicles or vessels of all types.

SimRush has been specifically designed to work in harmony with other connectivity into premises to provide seamless and robust failover with efficient use of data allowances.

The product can be configured to meet customers' bespoke technical requirements and WiFi coverage can be extended with additional hardware. It can be deployed into any premises as part of a wider connectivity solution and is suitable for use in complex network environments. Static Public IP addressing is optionally available on all SimRush products.

Post installation changes can easily be made to local networking parameters, including local LAN addressing, DHCP, DNS, port forwarding, WiFi SSIDs and passwords.

SimRush hardware performs a specific and complex role in the delivery of the broadband



service, the devices are all cloud managed to ensure reliable control via the easy to use web interface.

As it does not rely on a phone line it is also well suited for situations where connectivity is required for temporary or mobile access. Device settings are continually backed up to our data centre enabling us to perform troubleshooting for our customers should the need arise. (We do not monitor or store any of your traffic data, e.g your browsing activity).

Cloud management enables your SimRush to be automatically updated with the latest firmware releases which are rigorously tested and approved before being pushed to your device.

After sales support is provided by our technical service desk.

SimRush hardware connects reliably to 4G/ 5G, even in locations where mobile phones cannot obtain 4G / 5G signals.

**“You can’t see it
but SimRush can,,**

What's unique?

The SimRush Ecosystem	SPanel - Customer Portal
The Controller is connected to an Outdoor Unit (ODU) which contains the SIM(s). A unique feature is the way that SimRush can auto load balance your internet traffic across multiple Outdoor Units (ODUs) and/or an auxiliary WAN connection. This default programming ensures that traffic to HTTPS (SSL) sites are locked by connection to whichever outgoing path the traffic originates on, preventing rejection from the secure host. The SimRush Static Public IP address service is network independent. The Static Public IP address will self-heal by re-establishing the controller's Static Public IP connection to our data centre over any active WAN connection.	You can manage mirrored or separated WiFi SSID settings for 2.4/5GHz networks, WiFi Password, WiFi frequency settings for individual client access points (CAPs), their identities and WiFi device access control lists (including time-based blocking for parental control). Multiple additional or Guest WiFi networks can be added to a SimRush configuration with secure fixed password access, or an open network with managed guest portal. Additional SPanel users can also be added to your account.
Device Configuration	Bespoke Options
Load-balanced - Default Mode. This is best used when all WAN services are of similar speed, and gives a more uniform user experience with increased capacity. Failover Mode This configuration routes all traffic via a chosen Primary WAN service. If the Primary WAN service fails, all traffic is diverted to the Secondary WAN service, or vice versa. Public IP Addresses services are self-healing over any working WAN link. Bespoke Mode Used when there are multiple WAN routes. Traffic can be split for local devices to utilise the most cost efficient or predetermined path. Multiple WAN services can be pooled together into larger load-balanced groups whilst maintaining an alternative WAN as a final failover.	A wide array of bespoke options can be configured to any SimRush hardware to suit your own network needs. These include: VPNs. with IPSec security, Guest WiFi networks with self-service WiFi portal and optional PayPal integration and Content Filtering Services. IEEE 802.1Q VLAN networks can be added to your SimRush with the assistance of SimRush technical service desk. SimRush bespoke options can also allow for traffic shaping, for example controlling traffic for identified devices to utilise a specific external path, Network Bandwidth Prioritisation and Quality of Service (QoS).
Main Benefits	
✓ Gigabit capable – Faster than 4G. ✓ Faster upload speeds – Great for file transfers. ✓ Low latency - Say goodbye to lag! ✓ Managed WiFi access points and network switches – Expand your LAN. ✓ Portable connectivity - Does not need a phone line to operate. ✓ More devices connected simultaneously – Available when you need it. ✓ Get a Static Public IP address –Works with any network. ✓ Remote access your devices - CCTV, Servers or VPNs.	

SimRush 5G Two-Part Systems

The **SimRush 5G Omni** or **5G Directional** are recommended in 5G-ready locations for home, business and enterprise users. They are used as either a stand-alone method of connectivity or as a superfast disaster recovery if a primary connection fails.

The **5G Omni** and **5G Directional** are ideal for high data transit environments such as offices, and larger premises such as hotels, either on a permanent or temporary basis.

As 5G technology is extremely low latency, these models are perfect for high-speed video calling, HD streaming and fast file transferring.

The **5G Omni** and **5G Directional** are compatible with all 5G UK carriers (International model variations are available). They instantly backwards compatible with the 4G LTE network should the 5G network fail.

When connected to a 5G network, the CAT20 4G chipset enables much faster speeds on the 4G network, far outperforming standard 4G hardware.

The 2-part SimRush models from the 5G range come as an integrated package with two devices; a 5G-ready Outdoor Unit (ODU) which is mounted externally,

and a Controller which is situated internally. The ODU is cabled to the Controller using Ethernet. This means there is no 5G signal loss between the ODU and the Controller, resulting in the best possible network performance. The ability to add additional ODUs to the controller also enables you to seamlessly increase bandwidth.



The **AC3 Controller** features 3 x Gigabit LAN ports, 1 x AUX port and 1 x ODU port. It caters for up to one ODU. It also has built in dual band, dual chain wireless.



The **Pro Controller** features an SFP+ 10Gb Fibre port, 7x Gigabit LAN ports and caters for 2x ODUs along with an AUX port for use with an alternative broadband such as FTTC, FTTP, xDSL, WISP and Ethernet Leased lines.



The **Pro WiFi controller** is identical to the **Pro** except for the addition of the best WiFi 5 Wave 2 dual-band WiFi for extremely high-speed wireless access.



SimRush 5G Directional is for anyone who...

- Is adjacent to a 5G-ready area but has slow fixed line broadband
- Is based in an area with increased congestion on the 4G network
- Wants a leased line but wants to avoid the associated installation and ongoing costs
- Wants the latest technology available for their business or home
- Needs high-speed remote access to their network and devices

SimRush 5G Omni is ideal for anyone who...

- Is based in an area with increased congestion on the 4G network.
- Is based in a major city or town but has slow fixed line broadband.
- Wants a leased line but wants to avoid the associated installation and ongoing costs
- Wants the latest technology available for their business or home
- Needs high-speed remote access to their network and devices



SimRush Chateau 5G

The SimRush Chateau 5G is a high speed, dual-band access point for really fast internet anywhere, anytime. It supports both ultrafast 5G and superfast 4G LTE through the powerful CAT20 modem, so it can be used in places with and without 5G coverage.

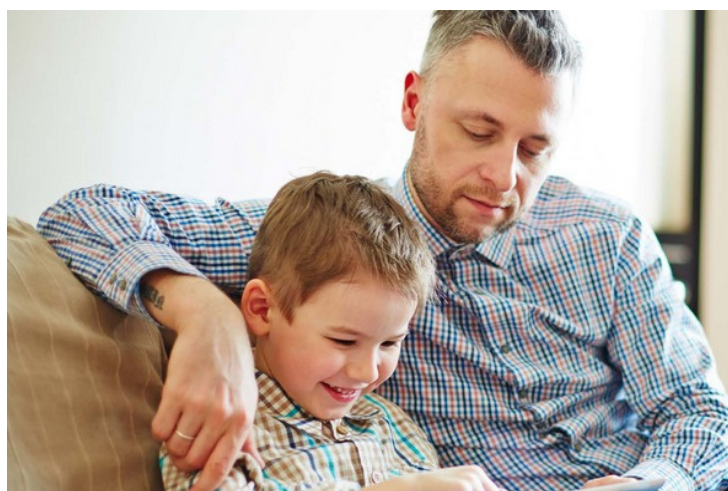
It's ideal for homes and small businesses who want a simple solution for quick, easy and reliable access to the internet. The compact, sleek design fits perfectly into any modern office or home environment.

SimRush Chateau 5G is pre-configured to work out of the box so it doesn't require an installation visit or fee. This means it's great for temporary internet requirements.

If you need a solution that just works out of the box, then the Chateau 5G is for you!

Key Features

- 5G Modem for Ultrafast 5G speeds
- Powerful CAT 20 modem for 4G LTE Access
- Automatic failover to 4G if 5G signal lost
- External antennas for even stronger signal
- 5 x Gigabit Ethernet ports
- 1 x full size USB port
- Strong dual-chain dual-band 2.4/5Ghz WiFi
- Carrier independent 4G/5G static public IP address available



Key Benefits

- **Super easy set up** – The Chateau works out of the box, just plug and play!
- **Get Ultrafast speeds and say goodbye to lag** with awesome low latency 5G internet.
- **Extremely fast LTE access** – Amazing speeds even in areas without 5G coverage.
- **Easily browse, video call and stream** without interruption.
- Strong WiFi that can cope with **high demand & multiple devices**.
- **Sleek, compact design** – Looks great in any home or office.
- **Portable device** – Ideal solution for temporary connectivity. Take it with you to each new site.
- **Get a Static Public IP address** - Remotely access your CCTV footage, servers or VPN with ease.

SimRush Chateau 5G is ideal for

- Homes
- Small Businesses
- CCTV Connectivity
- Event WiFi
- Boat WiFi
- Temporary connectivity (e.g. Construction Sites, Portacabin Offices)





5G Directional



5G Omni



Chateau 5G

Primary Hardware	Outdoor device: Including Six 10 dBi long range directional antennas. Mounted externally. Internal Controller device: Enterprise class Firewall, Router and Wireless Controller with gigabit ethernet ports available to connect LAN or WAN.	Outdoor device: Built-In high gain omnidirectional antennae, 4x4 MIMO 5G NR and LTE. Mounted externally. Internal Controller device: Enterprise class Firewall, Router and Wireless Controller with gigabit ethernet ports available to connect LAN or WAN.	Indoor Device: Integrated dual-band antennas and two external antennas. Desk Mounted. Enterprise class Firewall, Router and Wireless Controller with gigabit ethernet ports available to connect LAN or WAN.
Other Technical Features	Load balanced, Auto Failover. Central WiFi Controller.		
*Max Data Rate	5G Sub-6 SA - 4.2 Gbps/650 Mbps 5G Sub-6 NSA - 5.0 Gbps/900 Mbps LTE - 2.0 Gbps/200 Mbps <i>*Depends on provider mast capacity and operational environment</i>	5G Sub-6 SA - 4.67 Gbps/1.25 Gbps 5G Sub-6 NSA - 4.47 Gbps/730 Mbps LTE - 1.6 Gbps/211Mbps <i>*Depends on provider mast capacity and operational environment</i>	Wireless 5 GHz: 867Mbps Wireless 2.4 GHz: 300Mbps <i>*Depends on provider mast capacity and operational environment</i>
Bespoke Options	Multiple WiFi SSIDs Guest WiFi Multiple Networks including VLAN configurations. Traffic Prioritisation and Direction. VPN Site-to-site or Remote User.		
Optional Add Ons	All SimRush accessories, WiFi access points, network switches and building to building links. Carrier Independent Fixed/Static Public IP		
Used For:	4G/Edge of 5G coverage	Great 5G service Indoor & Outdoor	Great 5G service Indoor & Outdoor
Hardware Warranty	12 months standard	12 months standard	24 Months standard
Size (mm)	5G ODU: 255x256x58 Pro Controller: 228x120x30 Pro WiFi Controller: 228x120x30 AC3 Controller: 251x129x39	5G Omni device: 150x100x200 Pro Controller: 228x120x30 Pro WiFi Controller: 228x120x30 AC3 Controller: 251x129x39	Chateau 5G : 240x156x44

Product Licence, Technical Support & Warranty

The SimRush Product Licence gives you access to technical support for your devices, the newest features via updates, firmware revisions and security protection.

It also gives you access to SPanel, the SimRush cloud management portal that allows you to make device changes to your site. This includes local LAN IP address settings, DHCP settings and reservations, port forwarding, Wireless SSID, passwords and access control lists.

The SimRush Product Licence has been designed to allow you to easily renew and

scale your devices to fit your changing needs. The base product licence is annual and commences with the original purchase, additional units can be added and are co-termined with hardware already on the licence.

If the devices under licence need to be changed, for example after an upgrade, this can be easily managed ensuring all your devices remain fully supported.

Automatic renewal reminders are sent to administrator users to help ensure the licence does not lapse.

Technical support includes:

- ✓ Deployment of bug fixes.
- ✓ System and configuration upgrades and updates.
- ✓ Firmware revisions and security protection.
- ✓ Help & support with data carrier. (SimRush issue data SIMs only)
- ✓ Change of local IP range (Subnet).
- ✓ Investigate WiFi connectivity issues. (SimRush equipment only)
- ✓ Investigate CAP connectivity issues.
- ✓ Investigate Wireless Controller config / communication issues.
- ✓ Investigate internet connectivity issues when data is available.
- ✓ Set static DHCP reservations for LAN devices and associate to access control address lists ACLs).
- ✓ Per Access Point channel/frequency management for 2.4 & 5GHz networks.

Technical support does not include:

- ✗ Does not extend to 3rd party equipment.
- ✗ Does not extend to connectivity related to cabling by other installers.
- ✗ Does not extend to non-approved SimRush install.
- ✗ Does not extend to the use of the incorrect power supply.

Change requests and support outside of the above parameters is not included in the product licence fee and may incur charges.

All SimRush hardware comes with a standard 12 month manufacturer warranty.

SimRush
www.simrush.com

