

SimRush
Redefining Superfast

Product Brochure

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Introduction to SimRush

There are many reasons why our clients choose SimRush for their homes, businesses and vehicles.

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

SimRush enables delivery of superfast broadband to homes 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 LTE/ 5G, even in locations where mobile phones cannot obtain 4G LTE/ 5G signals.

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

What's unique?

The SimRush Ecosystem	SPanel - Customer Portal	Device Configuration	Bespoke Options
The Controller is connected to an Outdoor Unit (ODU) which is externally mounted and houses the data SIM(s). One of the unique features of the system is the way that we can load balance your internet traffic across multiple Outdoor Units (ODUs) and/or an auxiliary WAN connection automatically. This programming is available by default and 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. One of the unique characteristics of our SimRush Static Public IP address service is that it 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 if required.	Default Configuration - Load-balanced Most effective when the outbound services are of similar speed, and gives a more uniform user experience. Alternative Configuration Failover All traffic goes through the SimRush Outdoor Unit or units unless the signal is lost, for example during network maintenance or service outage, all traffic is diverted to the failover auxiliary WAN gateway, or vice versa. Bespoke Configuration Used when there are multiple outbound routes (e.g. ADSL, FTTC, Satellite and multiple SimRush ODUs). Traffic can be split for certain devices to utilise the most cost efficient or predetermined path. This means all high priority users can go through the SimRush gateways, either singular or load-balanced, and low priority users go through one of the alternatives (ADSL, FTTC or satellite).	A wide array of bespoke options can be configured to any SimRush hardware to suit your own network needs. Bespoke options include: Virtual Private Networks (VPN), 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).

Essential

The SimRush Essential range models are typically used by homes and small businesses which have less than twenty concurrent users. They are very often used in rural locations as a primary method of connectivity or for failover to ensure business continuity.



SimRush AC3

The SimRush AC3 delivers superfast broadband to your premises with WiFi. It combines an Outdoor Unit (ODU) and a SimRush Controller which has a fully featured firewall. The Controller has 3x LAN ports, 1x AUX port, 1x ODU port and dual band ac wireless.

All Ethernet ports on the Controller provide Gigabit Ethernet connections to any wired devices.



SimRush Chateau 4G

The SimRush Chateau 4G is a high-speed dual-band router for superfast internet wherever you need it. With its dual chain dual band 2.4/5Ghz configuration and CAT12 LTE modem, this router is perfect for homes and businesses that want a plug & play solution that provides reliable, fast internet.

This is an all-in-one device which does not require an Outdoor Unit.



The majority of SimRush models come as an integrated package with two devices: the **Controller** which is located internally at the premises and varies dependent on model, and an **Outdoor Unit (ODU)** which is mounted externally.

There are **Standard, Long Range** and **5G capable** ODU options available that can cater for different locations and connectivity requirements.

The ODUs use a professional LTE chip with integrated high gain antenna. When properly fitted this ensures a consistent reliable link to the 4G LTE/5G networks. All ODU options enable carrier aggregation and allow the device to use multiple bands at the same time. This provides better responsiveness in crowded environments like towns and cities and higher efficiency for weaker signals in the countryside.

The ODU is connected to the controller using Ethernet, not Radio Frequency (RF) found in coaxial cable. This means there is no 4G LTE or 5G signal loss between the ODU and the controller resulting in the best possible network performance.

Business

The SimRush Business range models are recommended for business and enterprise users. They are deployed in physically larger spaces or more technically complex environments with twenty or more concurrent users. They are very often used in rural locations as a primary method of connectivity or to ensure business continuity.

All SimRush controllers in the SimRush Business range are also wireless controllers allowing central management for all SimRush access points to extend WiFi coverage throughout the premises.

In countries where large data SIM allowances are not available, the ability to add additional ODUs to the controller enables you to seamlessly increase your monthly data transit capacity. This is ideal for high data transit environments such as offices, and larger premises such as hotels, either on a permanent or temporary basis.

SimRush Power

With PoE-in and PoE-out functionality on all eight Ethernet ports as well as the DC jack and 2-pin connector, this router offers 10 separate ways of powering! It's like having a powerful network switch already built in to your set up.

The Gigabit Ethernet firewall has 5 LAN ports available and an SFP cage for fibre connectivity.

With a durable metallic case and rackmount design, this router is perfect for any requirements ranging from a confined research facility or office to huge corporate server rooms. You can fit four of these routers in a single 1U rackmount space so it's the ideal option if you need a powerful but space efficient device.



Power Controller



Pro Controller



Pro WiFi Controller

SimRush Pro

The Pro Controller is a professional level router with a high-performance quad core CPU to maximise processing power and capability. It can be used with up to four data sims (two simultaneous connections) when used with two SimRush Outdoor Units.

It 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 Controller can be either placed on a desk or rack mounted.

A WiFi model provides the best WiFi 5 Wave 2 dual-band WiFi for extremely high speed wireless access.

Mobile

The SimRush mobile range includes the Omni and the Omni One models. They provide a simple and cost effective way to get feature rich WiFi on-the-go. It is also a cost effective device to get internet connectivity and WiFi in locations with a good 4G LTE signal.

- ✓ WiFi for boats, buses, taxis, tractors, motorhomes.
- ✓ Backhaul connectivity for IoT/M2M devices
- ✓ Pop-Up retail stands for Chip & Pin machine and mobile EPOS
- ✓ Premises broadband in areas with a good LTE signal
- ✓ Connectivity for remote CCTV

As well as providing you with great connectivity and WiFi, the Omni and the Omni One models can also be configured as a remote wireless extension of your internal SimRush network to be used from anywhere in the world. It provides a secure and convenient way to access resources from your SimRush network



even when you are not there, it's just like being at home or in your office.

Your device becomes a portable hardware extension to the SimRush controller at your premises, making that network and its internet connection available from any location. This is ideal for users who want their internet connection to appear as if it originates from their premises. This may help with authorisation to financial sites, IP locked web services or streaming geo-locked media services from outside your country of origin. (You must have a SimRush Static Public IP to use this service)

SimRush Omni

The SimRush Omni weatherproof device features a CAT6 modem with high speed CPU, extra memory, and dual 10/100/1000 Gigabit Ethernet ports making it the fastest portable SimRush product available to date. It can be powered using PoE from 802.3af/at power sources (12v, 24v or 48v). It features dual concurrent 2.4 & 5ghz WiFi (802.11a/b/g/n/ac) with 2x2 MIMO meaning faster more efficient wireless with less interference.



SimRush Omni One

The SimRush Omni One is a bundle that includes the SimRush Omni with an AP One Access Point (AP) and 5M pre-terminated cable. It can give you WiFi inside and outside your premises. The Omni can be easily mounted on a pole or wall, which is ideal if being deployed in a static location.

This solution is great for any customers needing a 4G LTE rapid deployment solution. For example, CCTV to building sites or temporary internet access for a short-term event.



AP One Access Point

	Essential	Business	Mobile
Maximum Number of Data Sims	Two	Four	One
Primary Hardware	Outdoor Device: Professional LTE chip with integrated directional high gain antenna. Mounted externally. + Indoor Controller Device: Business class firewall, router and Wireless Controller with integrated WiFi access point for 2.4GHz and 5GHz (Dual concurrent 802.11 a/b/g/n/ac)	Outdoor Device: Professional LTE chip with integrated directional high gain antenna. Mounted externally. + Indoor Controller Device: Enterprise class Firewall, Router and Wireless Controller with gigabit ethernet ports & fibre SFP/SFP+ available to connect LAN or WAN.	Outdoor/Indoor Device: Two internal antennas. Wireless access point with built in cellular modem for 4G (LTE) connectivity. 2.4GHz WiFi (2x2 MIMO - 802.11 bgn) 10/100 Ethernet LAN port for wired devices.
Other Technical Features	Load Balanced, Auto failover. Central WiFi Controller. Active WiFi included in Controller unit. Statistics and graphs.	Load Balanced, Auto failover. Central WiFi Controller. Statistics and graphs. Power version provides a PoE out supply for additional indoor access points. Power and Pro versions do not include active WiFi within controller. Pro WiFi version provides 7 x Gigabit LAN ports and 1x SFP+, WiFi 5 Wave 2 Dual concurrent WiFi Access point (802.11 a/b/g/n/ac)	Powering options include 9-57V PoE-in by Ethernet port, DC jack and Automotive connector. Statistics and graphs. Omni version provides CAT6 LTE Modem, dual Gigabit Ethernet and WiFi access point for 2.4GHz and 5GHz (Dual concurrent 802.11 a/b/g/n/ac)
Bespoke Options	Multiple WiFi SSIDs. Guest WiFi. Multiple Networks including VLAN configurations. Traffic Prioritisation & Direction. VPN Site-to-site or Remote User.	Multiple WiFi SSIDs. Guest WiFi. Multiple Networks including Vlan configurations. Traffic Prioritisation & Direction. VPN Site-to-site or Remote User.	Multiple WiFi SSIDs. Guest WiFi. Multiple Networks including VLAN configurations. VPN Site-to-site or Remote User.
Add-ons	Add up to 15 SimRush access points to extend internal and external coverage. Static Public IP	Add hundreds of SimRush access points (Depending on model) to extend internal and external coverage. Static Public IP	u.FL connectors enables addition of external LTE antenna for larger coverage. Static Public IP
Used for:	Small to Medium size homes. SoHo Business Premises. Agriculture, Telemetry, CCTV. Event WiFi. Portacabin Offices.	Medium to Large Homes or Offices. Larger Premises Area requiring Extended WiFi Coverage. High Volume / High Density site locations offering Guest WiFi portal access e.g. Campsites and Hotels. WAN Connectivity failover for existing networks.	Pop-Up Retail Stand; use Chip & Pin, mobile EPOS. Event WiFi. Mobile Office. Marine, Buses, Coaches & Taxis. Agriculture, Telemetry, Haulage. Temporary CCTV.
Hardware Warranty	12 Months standard (Extendable)	12 Months standard (Extendable)	12 Months standard (Extendable)

The SimRush 5G models are recommended for home, business and enterprise users who have 5G coverage at their location or who are looking for the best speeds possible on the 4G network.

They are used in 5G ready locations as either a stand-alone method of connectivity or as a superfast disaster recovery if a primary connection fails.

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

In addition, the ability to add additional ODUs to the controller enables you to seamlessly increase bandwidth. This is ideal for high data transit environments such as offices, and larger premises such as hotels, either on a permanent or temporary basis.



What's included?

2-part SimRush models from the 5G range come as an integrated package with two devices; the Controller which is located internally at the premises and a 5G-ready Outdoor Unit (ODU) which is mounted externally.

The ODU is connected 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 5G ODU is compatible with all 5G UK carriers (International model variations are available). It is also backwards compatible with the 4G LTE network out of the box for rapid 4G Failover. The 4G LTE chipset is Category 20 (CAT20), resulting in much faster speeds on the 4G network compared to previous SimRush hardware.

The SimRush Controllers available in the SimRush 5G range are the SimRush Pro, SimRush Pro WiFi and the SimRush AC3.

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 model 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.

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.

Key Features

- ✓ Ultra-fast download speeds of up to 2 Gbps*
- ✓ Upload speeds up to 650 Mbps*
- ✓ Super low latency

- ✓ Multiple long range directional antennas for excellent signal strength
- ✓ Carrier independent 5G Fixed IP address available (not included)

- ✓ SimRush Controller managed via SPanel, our cloud-based management system
- ✓ Automatic 4G LTE backup out of the box

* Theoretical maximum: depends on 5G provider mast capacity and operational environment.



Main Benefits

- ✓ **Super-fast connection** - Much faster speeds available compared to 4G*
- ✓ **Low latency** - say goodbye to lag when file transferring, checking your email, video conferencing or streaming!
- ✓ **Portable connectivity** - As it does not need a phone line to operate, it is not fixed to your business or home address. When you move, it can be moved along with you!
- ✓ **Expandable WiFi** with SimRush centrally managed add on WiFi access points and network switches.
- ✓ **Overcomes common problems of working from home** - Better quality video calls and save valuable time uploading or downloading files.

- ✓ **More devices connected simultaneously** - No need to plan a time to use the internet. Simply connect when you need to.
- ✓ **Get a fixed IP address** - Cost effective fixed IP solution with unlimited 5G data. Remotely access your CCTV footage,

email servers or virtual private network service (VPN) with ease.

- ✓ **Fully managed efficient networking** for sites with a high volume of broadband users such as campsites, hotels, large offices, factories, and construction sites.



Who needs 5G broadband?

SimRush 5G models are ideal for anyone who...

- 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
- Is based in a major city or town but has slow fixed line broadband
- Wants the latest technology available for their business or home
- Needs high-speed remote access to their network and devices

	5G
Primary Hardware	Outdoor device: Including Six 10 dBi long range directional antennas. Mounted externally. + Indoor Controller device: Enterprise class Firewall, Router and Wireless Controller with gigabit ethernet ports & fibre SFP/SFP+ available to connect LAN or WAN.
Other Technical Features	Load balanced, Auto Failover. Central WiFi Controller. Pro version does not include active WiFi within the Controller. Pro WiFi version provides 7 x Gigabit LAN ports and 1 x SFP+, WiFi 5 Wave 2 Dual concurrent WiFi Access Point (802.11 a/b/g/n/ac)
Bespoke Options	Multiple WiFi SSIDs Guest WiFi Multiple Networks including Vlan configurations. Traffic Prioritisation and Direction. VPN Site-to-site or Remote User.
Add Ons	All SimRush accessories, WiFi access points, network switches and building to building links. Static Public IP
Used for	Business & home broadband Rapid deployment, pre-ethernet installation or temporary high speed network requirement Time critical situations e.g. Remote manufacturing / Precision agriculture / Industrial automation systems Leased Line alternative with 4G backup Heavy upload traffic High Volume / High Density site locations offering Guest WiFi portal access e.g. Factories, Hotels, Restaurants. WAN Connectivity failover for existing networks
Hardware Warranty	12 months standard
Dimensions	5G Outdoor device: 255 x 256 x 58 mm Pro & Pro WiFi Controller: 228 x 120 x 30 mm AC3 Controller: 251 x 129 x 39 mm
	 

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
- Carrier independent 5G/4G static public IP address available
- Strong dual-chain dual-band 2.4/5Ghz WiFi

Who's it for?

The SimRush Chateau 5G can be used by anyone who needs hassle free, fast connectivity.

It's especially useful for...

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

Key Benefits

- **Super easy set up** - The Chateau works out of the box, just plug and play!
- **Get Ultrafast speeds when connecting to 5G signal** - 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 requirements. Moving around a lot? Take it with you to each new site.
- **Get a public fixed IP address** - Remotely access your CCTV footage, email servers or virtual private network service (VPN) with ease.



Outdoor Units



Standard

The standard SimRush Outdoor Unit with Dual SIM slots incorporates a Category 6 LTE modem which enables carrier aggregation and allows the device to use multiple bands at the same time.

The professional LTE chip and high gain antenna enables it to provide connectivity to your premises even where mobile

phones cannot. It has a dual fast Ethernet port with passive PoE passthrough on port 2. It delivers speeds of up to 300Mbit/s downlink and 50Mbit/s uplink.

The LTE modem supports International LTE bands 1 / 2 / 3 / 7 / 8 / 20 / 5 / 12 / 17 / 25 / 26 / 38 / 40 / 39 / 41n



Long Range

The long range Outdoor Unit holds one SIM and has a 10/100 Ethernet port for connectivity. The increased sensitivity and high performance of the CAT6 modem can deliver speeds up to 300Mbit/s Downlink, 50Mbit/s Uplink.

It improves connectivity speeds at longer distances or in areas with very weak

signals and it will even connect to the 4G network in areas where the mobile phone signal fails. This makes it ideal for extreme or hard to reach rural locations.

The LTE modem supports International LTE bands 1 / 2 / 3 / 7 / 8 / 20 / 5 / 12 / 17 / 25 / 26 / 38 / 40 / 39 / 41n



ODU-18

The SimRush Outdoor Unit (CAT18) is the perfect option if you're looking to provide the fastest speeds possible on the 4G network. It features a phenomenal Category 18 LTE modem and gigabit Ethernet port with PoE in.

This combined with the modern ARM CPU means you can achieve theoretical speeds

of up to 1Gbps when you pair this unit with a gigabit capable SimRush Controller. This unit includes 4x4 MIMO support which means it has four antennas for four simultaneous data streams.

The LTE modem supports International LTE bands 1 / 3 / 7 / 8 / 20 / 5 / 28 / 38 / 40 / 41



ODU LR-18

The CAT18 version of our Long Range Outdoor Unit is here! Like the previous CAT6 model, this kit is designed for very remote locations where even your mobile phone can't get signal.

This upgraded version now comes with a cutting-edge Category 18 LTE modem for fast speeds (up to 1Gbps) wherever you

are. As with the previous model, carrier aggregation is enabled to allow the device to use multiple bands at the same time for better responsiveness and higher efficiency in congested and remote areas respectively.

The LTE modem supports International LTE bands 1 / 3 / 7 / 8 / 20 / 5 / 28 / 38 / 40 / 41



ODU 5G

The 5G Outdoor Unit supports the latest 5G technology whilst remaining backwards compatible with the 4G LTE network. The unit is capable of theoretical download speeds of up to 1 Gbps and upload speeds of up to 650 Mbps.

The wide spectrum bandwidth accelerates internet speeds and reduces network

latency for time-sensitive connectivity services.

This makes it a great choice if you are looking for a 5G solution to deliver high-capacity, premium broadband services with high-speed connectivity, enhanced network security and deployment flexibility.

Wireless Access Points



wAP One+ (weatherproof)

The wAP One+ is a small weatherproof wireless access point for your mobile devices, perfect for installation outside your premises where you need wireless access from your phone or computer.

The device has one Gigabit Ethernet port, it supports 802.11ac technology with Dual concurrent 2x2 MIMO 2.4GHz & 3x3 MIMO 5GHz radios (802.11 a/b/g/n/ac) It looks unobtrusive and sleek and is available in two colours – black or white.

The wAP One+ (Weatherproof) can be fixed to any external wall from the inside of the case so that it is securely attached to its mounting location. The bottom door can also be secured with a special screw which can only be opened by the owner.

It is also possible to run the Ethernet cable directly behind the unit, to inside the wall as there is a special opening on the back of the case. This way, the unit doesn't attract attention and blends into any environment.



AP One2

The AP One2 is the upgraded version of the AP One access point. Five 10/100/1000 Ethernet ports provide Gigabit connections for your wired devices.

The universal case design allows the device to be positioned either horizontally (desktop) or vertically (tower case). A wall anchored mounting kit is provided.

Features:

- Dual chain wireless 2.4 GHz
- Dual chain wireless 5 GHz
- 4 core 716 MHz CPU
- 128 MB of RAM
- Five x 10/100/1000 Mbps
- Ethernet ports
- IPsec Hardware encryption

The AP One2 can be powered from the power jack or with passive PoE from a PoE injector. Power adapter is included.



cAP One+

The cAP One+ is a very capable and powerful wireless access point that looks beautiful on both walls and ceilings.

The concurrent dual band wireless radio supports dual chain 2 GHz and 5 GHz in 802.11ac and legacy standards and will provide coverage in 360 degrees around it.

Even though the radio supports repeater mode, the two Ethernet ports give you the ability to extend your network with cables even if PoE power is required since the cAP ac supports 802.3af/at PoE input on the first port and passive PoE output (up to 57V) on the second port.



AP One

The AP One is a Dual-concurrent Access Point, that provides WiFi coverage for 2.4GHz and 5GHz frequencies at the same time.

The unit is equipped with a 650MHz CPU, 64MB RAM and five 10/100Mbps Ethernet ports.

There is also PoE out available on port 5.

If you're looking for affordable, basic WiFi coverage for your home or business then this access point is for you.

Add-ons Specifications

	Outdoor Unit Standard	Outdoor Unit Long Range	Outdoor Unit CAT18	Outdoor Unit LR CAT18
CPU Nominal Frequency	650MHz	716 MHz	—	—
Modem Category	CAT6	CAT6	CAT18	CAT18
10/100/1000 Ethernet Ports	2	1	1	1
Wireless Bands	LTE modem supports International LTE bands 1, 2, 3, 7, 8, 20, 38 and 40.	LTE modem supports international LTE bands 1, 2, 3, 5, 7, 8, 12,17,20,25 and 26	LTE modem supports International LTE bands 1, 3, 7, 8, 20, 38 and 40.	LTE modem supports International LTE bands 1, 3, 7, 8, 20, 38 and 40.
Protocols	—	—	—	—
MIMO	—	—	4X4 MIMO	—
Antenna Gain	9dBi	21dBi	13 dbi	17 dbi
Antenna Beam Width	60°	25°	60°	25°
PoE in	Yes	Yes	Yes	Yes
PoE out	Passive PoE up to 57V Ethernet port 2	—	—	—
Support Input Voltage	Passive12-57V, 802.3at/af (PoE Only)	Passive12-57V, 802.3at/af (PoE Only)	Passive12-57V, 802.3at/af (PoE Only)	Passive12-57V, 802.3at/af (PoE Only)
Dimensions	140 x 140 x 103 mm	391x391x227mm	315 mm diameter x 170 mm depth	391x391x227mm
Max Power Consumption	5W	6W	8W	8W
SIM Slots	2 x (Mini SIM)	1	1	1
Operating Temperature	-40°C to +60°C	-30°C to +70°C	-40°C to +70°C	-40°C to +70°C

	wAP One+ (Weatherproof)	AP One2	cAP One+	AP One
CPU Nominal Frequency	720 MHz	716 MHz	716 MHz	650 MHz
RAM	64Mb	128MB	128 MB	64Mb
10/100/1000 Ethernet Ports	1	5	2	0
Wireless Bands	2.4GHz & 5GHz	2.4GHz & 5GHz	2.4GHz & 5GHz	2.4GHz & 5GHz
Protocols	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11b/g/n 802.11a/n.ac
MIMO	3x3	2x2	2x2	2x2
Antenna Gain	2.5dBi	2.5dBi	2.5dBi	2dBi
Antenna Beam Width	360°	360°	360°	360°
PoE in	Yes	Yes	Yes	Yes
PoE out	—	—	Passive PoE up to 57V Ethernet port 2	Passive PoE up to 30V on port 5
Support Input Voltage	802.3at/af, 11-57V (Jack or Passive PoE)	Passive PoE 18-28V DC Jack 12-30 V	802.3at/af, 11-57V (Jack or Passive PoE)	802.3at/af, 10-28V (Jack or Passive PoE)
Dimensions	185 x 85 x 30 mm	34 x 119 x 98 mm	Round case -136 mm, height: 30 mm; Square case: 145 mm x 145 mm x 30 mm	113 x 89 x 28 mm
Max Power Consumption	12W	21W	13W	20W
SIM Slots	—	—	—	—
Operating Temperature	-40°C to +50°C	-40°C to +50°C	-30°C to +60°C	-30°C to +70°C

Network Switches



H1 Home Network Switch

The H1 is a five-port gigabit Ethernet switch to provide Power Over Ethernet (PoE) to other SimRush devices. The switch has an SFP cage for adding long distance fibre connectivity. Ports 2-5 can power other passive PoE capable devices.

The switch comes pre-programmed to integrate with your SimRush system, it is small and easy to use but at the same time

comes with a very powerful 800MHz CPU for effective high speed data connectivity with less power adapters and cables to worry about for additional access points.

Max current is 1A per port if input voltage is 12-30V, 450mA if 31-57V. 24v power supply included.



M1 Office Switch

The M1 Office Switch is an eight port Gigabit PoE switch, that offers different power output options: autosensing 802.3af/at PoE/PoE+ and Passive PoE. Four SFP ports provide optical fibre connectivity options to support links.

M1 Office Switch is equipped with 12 independent switching ports. 28 V 3.4 A power supply is already included in the box. There is a secondary DC jack on the back of the enclosure that supports 48-57 V power supply (not included, can be purchased separately). M1 Office Switch

can power 802.3af/at devices if 48-57 V DC input is used (unit will automatically detect and provide correct power to devices).

Max current is 1 A per port if input voltage is 18-28 V, 450 mA if 48-57 V. Total limit is 2.8A@24V and 1.4A@48-57V.

Features:

- 4 x SFP Fibre cages
- Silent operation, fanless design
- 16K host table
- IEEE 802.1Q VLAN
- Supports up to 4K simultaneous VLANs



E1 Enterprise Switch

The E1 is a 24 port Gigabit Ethernet switch with two SFP+ ports. It gives you all the basic functionality of a managed switch, and more. You can manage port-to-port forwarding, apply MAC filters, configure VLANs, mirror traffic, apply bandwidth limitation and even adjust some MAC and IP header fields. The SFP cage supports both 1.25 Gb SFP and 10 Gb SFP+ modules.

Features:

- 16K host table
- IEEE 802.1Q VLAN
- Supports up to 4K simultaneous VLANs
- Port isolation
- Port security
- Access Control List



E2 Enterprise PoE Switch

The E2 is an independent 28 port switch, it has 24 Gigabit Ethernet ports, which offer different power output options: Passive PoE, low voltage PoE, 802.3af/at with auto-sensing. Each port can provide up to 30W of power with any power output option you choose. The four SFP+ ports provide up to 10 Gbps connectivity options via either optical fibre or Ethernet modules (not included).

E2 comes in a 1U rackmount case with built-in 100-240 V AC 500 W power supply. The device consumes up to 44W leaving

guaranteed 450W (3x150 W per every 8 Ethernet ports) to power your PoE devices.

Features:

- 16K host table
- IEEE 802.1Q VLAN
- Supports up to 4K simultaneous VLANs
- Port isolation
- Port security
- Access control list
- 10218-byte jumbo frames support
- IEEE 802.3ad and static link aggregation

Network Switches - Specifications

	H1 Home Network Solution	M1 Office Switch	E1 Enterprise Switch	E2 Enterprise PoE Switch
CPU Nominal frequency	800 MHz	400 MHz	800 MHz	800 MHz
Size of RAM	128 MB	512 MB	1512 MB	512 MB
10/100/1000 Ethernet Ports	5	8	24	24
SFP cages	1	4	2 x SFP+	4 x SFP+
PoE out	Passive only, Port 2-5	Autosensing Passive and 802.3af/at with optional 48V PSU	-	Yes, Autosensing 802.3af/at & Passive 24V
Support Input Voltage	12 V - 57 V	2 x DC Jacks 18-28 V / 48-57 V	9 - 30 V (jack or passive PoE)	100 - 240 V
Dimensions	114 x 137 x 29 mm	200 x 143 x 40 mm	440 x 144 x 44 mm	443 x 305 x 44 mm
Max Power Consumption	9W	10W	24W	44W
Console Serial Port	—	RJ45	RJ45	RJ45
Operating Temperature	-40°C to +60°C	-20°C to +60°C	-40°C to +60°C	-20°C to +60°

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.

First line technical support for incidents is provided directly to end users by Approved Resellers. Escalated support requests are made via Approved Resellers and includes:

- ✓ 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;
- ✗ 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
 - ✓ 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.

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 Partners

SimRush Approved Resellers sell SimRush products. SimRush Accredited Installers install SimRush products.

By purchasing your SimRush through an Approved Reseller you are ensuring local contact and support for your system. Our partners can help guide you to purchasing the right equipment for your needs and co-ordinate your installation using Accredited

Installers. You can install the products yourself if you prefer.

SimRush Accredited Installers ensure your hardware is installed correctly using the right materials to give you maximum connectivity speeds and beautiful WiFi.

To find a SimRush Approved Partner simply email us: hello@simrush.com

SimRush
Approved *reseller* ✓

SimRush
Accredited *installer* ✓





Do you want to offer your guests and visitors free or paid for WiFi at your venue or whilst using your mobile assets such as boats, buses or taxis? Do you want to collect their social and other data and use it to market back to them? Social-i will enable you to do just that!



Branded login pages of your choice can be displayed to guests who want to get online using your WiFi. They connect using their preferred social network or a standard form and Social-i captures their details and builds your customer database.

Social-i enables you to get more likes, followers and reviews. You can engage with your customers by promoting your services, offers and rewards. Create loyalty and drive more profits!



The cloud based WiFi platform that enables easy internet access for your guests, real time customer engagement and a suite of marketing tools and reports.



Provide Guest WiFi that is safe, secure, simple to manage and allows users to get online with minimum effort.



Improve your guests' experience, increase customer satisfaction and loyalty, generate additional revenue.

Guests and visitors can log in with ease via forms, social media, vouchers, or one-click quick connect. You have full control over the service tiers, charges, the amount of available bandwidth and time online. All of the data collected is stored in the dashboard and can be used for targeted guest engagement or as part of ongoing marketing campaigns.

Give your customers a more personalised experience by using targeted and automated marketing campaigns. After a user has registered

and logged into the WiFi, they receive emails or SMS promoting your products and services. Links, ads, surveys and other content can be placed in the user's browser as they surf the internet.

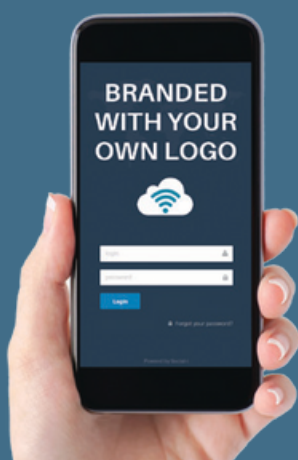
The Admin Portal is an easy-to-use management tool that gives you the ability to choose how your guests or visitors access the Internet and informs you precisely what is happening on your network.



Key Features

✓ Guest access to the Internet from a portal branded with your company logo, promotions and localised content.

✓ Bespoke branded portals for specific events, sites or zones to deliver highly tailored content.



✓ Detailed analytics and reports about WiFi users including demographics, frequency of visits, and type of Internet access.

✓ WiFi made easy; customers can login without the need for a captive portal. It's just like WiFi at home.

✓ A robust WiFi infrastructure designed to handle peaks and troughs in usage.

✓ Control over charges for WiFi and any limits required on duration and bandwidth.

✓ Full integration with your Property Management System, CRM and email marketing platforms.

✓ A way for visitors to log in using their favourite social network, traditional form or membership number.

✓ Full compliance with European legislation on lawful Intercept, ensuring you are not liable should illegal activity be carried out by guests on your network.

✓ Gain user consent in compliance with GDPR.

✓ Additional paid module available which enables you to display adverts to your guests before they sign in or as a pop-up whilst they are online.

✓ A survey tool to allow for the creation of surveys and quizzes for your guests to fill out.

Key Benefits

✓ A continuous branded experience that serves as a constant reminder of your values and USPs and enhances the customer experience.

✓ The means to generate additional revenue.

✓ Access to customer data and intelligent analytics.

✓ The ability to deliver real-time and highly targeted marketing campaigns to create new revenue opportunities and timely customer communications.

✓ Improved customer satisfaction as a result of fast broadband even when demand is high.

✓ Flexibility and control over what you charge and the type of WiFi service you wish to provide.

✓ Hassle-free internet for your guests for the duration of their visit or stay.

✓ A dramatic increase in brand exposure, customer loyalty & engagement through the power of social networking.

✓ Peace of mind that your network is protected.

✓ Gather valuable information about your users to more effectively market to them.



SimRush

Redefining Superfast

www.simrush.com

