



SIFI Solar Solutions

SIFI Solar Access Point

SiFi Solar Powered Wireless Range Extender [®]

Brochure.





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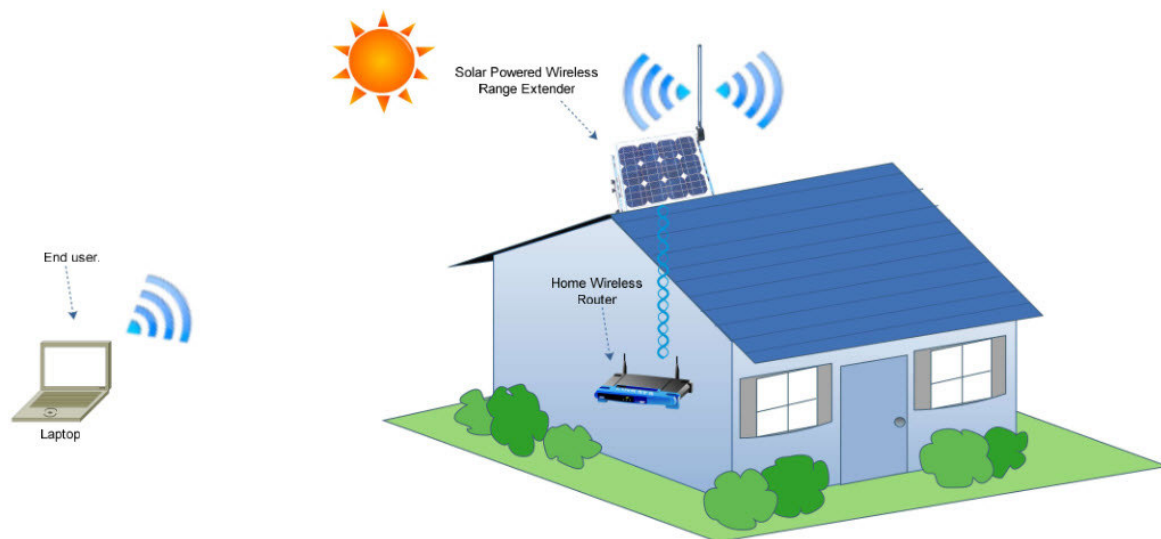
What it does?

The clue is in the title! The SiFi Solar Powered Wireless Range Extender meshes with your home wireless router and re-transmits your wireless network, enhancing and augmenting your signal coverage.

The promise of WiFi has always been to bring the internet away from your desk and into your life, for most of us however, your life had better end at the walls of your house. The Solar Powered Wireless Range Extender offers you the opportunity to surf the internet in your garden, to get online in your garage when you're working on your car or even simply cover a large outdoor area.

Camp sites can enhance their wireless network for customers, a marina can offer extended WiFi coverage, pubs can offer WiFi in their beer gardens, and WiFi Hotspots can enhance the coverage they offer without installing expensive infrastructure.

How it works



Simples! A 30 watt rugged solar panel powers an advanced, internally mounted Li-ion battery pack which in turn powers an 802.11 B/N/G universal wireless repeater with MIMO dipole antennas, one mounted externally and one internally. Just enter your wireless router information into an easy to configure browser based interface (no clunky useless software) , position your Solar Powered Wireless Range Extender facing the sun and you're away!



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How do I deploy my Solar Powered Wireless Range Extender?

The Solar Powered Wireless Range Extender comes equipped with A-frame mounting legs and an adjustable antenna mount.



Just adjust the legs to whatever angle you want, face towards the sun, and you can put it anywhere. Sit it in the garden, bolt it to your roof, use cable ties to mount it on your fence even! That's the beauty of this system, it isn't a clunky kit that you need to hire a construction team to install, it weighs only 6 kilograms, is portable and you can put it anywhere.



What do I get with my Solar Powered Wireless Range Extender?

Included with the product is the Range Extender unit with solar panel, a 9Db. 2.4 Ghz. Antenna, a 12 volt mains charger (For charging the battery through the mains in times of poor weather), Allen keys for adjusting the antenna mount and the A-frame solar panel mount.



Other FAQ

I live in the UK, will a solar panel be effective: -

The Solar Powered Wireless Range Extender was designed and tested in Scotland (57 degrees north) and run continuously for several weeks and can run for more than 24 hours on a single full charge. 4 hours of sunshine a day is sufficient for an 80% uptime, with all the downtime being during the late night. 6 or more hours of sunshine will have the product working continuously. To put this in context, even in winter, a place like Scotland can expect an average of four hours sunshine per day. Clearly, we can't guarantee good weather. However, if you have several heavily overcast days, we recommend using the supplied latching switch to switch the unit off when not in use to conserve power or alternatively retrieving the unit and using the 12 volt mains charger to



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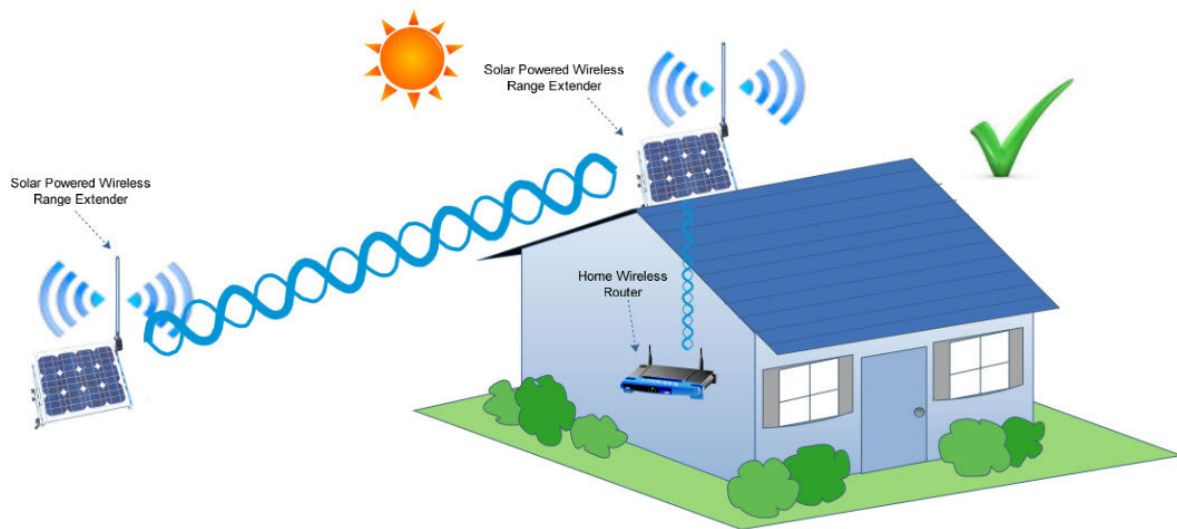
restore the battery. Consider also, that if the battery does go flat, the first sunbeam that hits it will bring it instantly back to life.

How much extra wifi coverage can I expect from my Solar Powered Wireless Range Extender?

If you position the Range Extender according to our guidelines, you can expect an extended area coverage of a minimum of 250 - 300 feet, and a maximum of 800 – 1000 feet if you're in an area with little radio interference from neighbouring wireless router.

Can I use more than one Solar Powered Wireless Range Extender?

Yes, The Solar Powered Wireless Range Extender supports cascading units together.





Full list of features

Universal Wireless Repeater

- Complies with the IEEE 802.11b/g and IEEE802.11n standards
- Supports 2.400~2.4835GHz frequency band
- High data rate up to 300Mbps network speed
- Auto rate fallback in case of obstacles or interferences
- Supports point-to-point and point-to-multi point bridge function
- Supports WDS (Wireless Distributed System) repeater mode
- Supports Universal Repeater mode
- Supports AP Client mode
- Supports four sets of ESSID to group the different wireless networks
- Supports roaming link integrity
- Provides 64/128 bit key length WEP data encryption
- Supports WPA, WPA2 security enhanced function (pre-shared key, 802.1x, TKIP, AES...)
- Supports WPS (Wi-Fi Protected Setup) function
- Provides MAC access control
- Provides hidden SSID function
- Supports Web-based configuration
- Firmware upgradeable via Web browser
- MIMO dipole antennas, one external 9 decibel, one internal 3 decibel.

Solar Panel

- Related power - 30W
- Voc - 21.24V
- Vop - 18V
- Shape of cell - Persuo square
- Short circuit current (Isc) - 1.83A
- Working current (Iop) -1.67A
- Output Tolerance - $\pm 5\%$
- Temperate coefficient of Isc - $+0.1\%/^{\circ}\text{C}$
- Temperate coefficient of Voc - $-0.38\%/^{\circ}\text{C}$
- Temperate coefficient of power Voc - $-0.47\%/^{\circ}\text{C}$
- Temperature range -40°C to $+80^{\circ}\text{C}$
- Frame - Anodized aluminum alloy
- Guarantee of power 90% with 10 years, 80% with in 25 years
- Kind of glass and its thickness: - Low Iron, high transparency tempered glass of 3.2mm
- Surface Maximum Load Capacity: - 50m/s(200kg/sq.m)
- Allowable Hail Load fall down from 1m height
- SLA Battery Voltage 12V
- Dimensions (L x W x H) 525*445*35mm



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- Net Weight 3.5kgs

Battery Pack

- 39 Wh capacity
- 370 minutes (6 hours) to full charge from flat
- Full PCB protection against overcharging, over discharging and temperature
- 9 volt output



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Purchasing

For details on how to purchase, please visit <http://www.sifisolar.co.uk>

At present, RRP is £489.99 (VAT included)

We have options to lease for £35 a month, contact us at info@sifisolar.co.uk for more details.

Subject to terms and conditions.