

Tinynode R4 and SR4 repeaters

Product brochure

R4 repeater provides a reliable self-configuring and self-healing wireless networking of Tinynode's vehicle detection sensors.

It supports 868 MHz, 915 MHz and 920 MHz radio frequencies, stands harsh weather conditions and it can be placed either indoor or outdoor, preferably mounted on walls or poles. It ensures extremely flexible installation and maintenance, with batteries lasting up to 10 years that can be easily replaced. Key features include automatic failure and battery status reporting.

SR4 super repeater provides a reliable long-range link between a Tinynode G4 gateway and R4 repeaters.

It is particularly useful to ensure the highest data transmission accuracy in any situation where sensors are located several hundred meters from a G4 gateway. It also allows to reduce the number of gateways required for spread-out installations.



Tinynode R4 repeater (left)
and SR4 repeater (right)



Technical specifications

Battery life

Up to 10 years, 1 year product warranty

Radio communication

Self-configuring, multi-hop and self-healing networking protocol

Radio communication availability above 99%

Radio frequencies	868MHz, 915MHz, 920MHz			
Communication range (line-of-sight condition)	R4	30 m to A4 or A4-H sensor 30 m to B4 or B4-H sensor 100 m to R4 repeater 100 m to G4 gateway	SR4	200 m to R4 repeater 1000 m to SR4 repeater 300 m to G4 gateway

Environmental

Dimensions and weight	80 x 250 x 70 mm; 670g
Antenna dimensions and weight (SR4 only)	259 x 259 x 33 mm; 1300 g
Fixation	Screws for wall mouting, collars for pole mounting
Color	Light gray RAL 7035

Mechanical properties

Operating temperature	-20°C to +70°C
Protection grade	IP66
Resistance	Harsh weather conditions, water, snow, UV

Installation and maintenance

Easy and flexible installation either indoor or outdoor, preferably mounted on walls or poles

Web interface for easy setup and maintenance

Automatically reporting battery status and failures

Automatic wireless reconfiguration and software update

Information subject to change without notice. Last update: May 2018

Tinynode SA

Via Passeggiata 7 – 6883 Novazzano – Switzerland

ph +41 91 233 0100 | tinynode@tinynode.com | support@tinynode.com

www.tinynode.com | www.pdxeng.ch