

RCP and Skyport Series

Complete Outdoor Broadband Wireless Solutions: Backhaul to Client Products

RCP Series



Skyport Series



In collaboration with Intel and their effort to bring internet connectivity to the most remote regions on earth, their "World Ahead" initiative, we have been selected as Intel's authorized RCP equipment provider. Engineering a low cost, low power, high performance solution into an all-weather enclosure brings this dream one step closer to reality.





TDMA Technology

Many proprietary forms of TDMA exist today for improving long distance WI-FI connectivity. We have selected Intel's implementation of the TDMA protocol as it has proven superior to other competing offers that are currently available. This implementation is primarily engineered for long distance communication. So if your network spans a distance of 10 miles or more, deploy our TDMA devices and compare it to other products on the market and see the difference for yourself.*

* For more information about RCP and TDMA implementation and deployment considerations, please see the RCP White Papers at www.zcomax.com.

IP67 Enclosure

IP67 is an international rating of protection against foreign objects and water ingress. A rating of "67" indicates that dust cannot penetrate the seal and protection from contact as well as protection from water to an immersion of 1 meter. The RCP can stand up to the harshest of environments.

Intel Processing Power

The core RCP Platform is a powerful computing device able to drive two networking radios simultaneously and process all the incoming and outgoing information accurately and quickly, a task that cannot be realized with low cost SoC designs. Built around Intel's reliable line of embedded processors and quality components, the RCP is built to survive harsh conditions and heavy usage

The Rural Connectivity Platform

The RCP is a wireless long distance back haul solution operating in unlicensed spectrums to provide the perfect product for emerging markets. Intel's TDMA technology enables backhaul connections of over 100km*. Additionally, the relay and fork modes of operation allow for more complex topologies. So even if there are mountains or rough terrain, the connection between the base station and the rural end point can be maintained.

RCP Advantages

- Solar Power Capable
- IP67 Rated Outdoor Enclosure
- True Intel TDMA Implementation
- Capable of >100km Backhaul Links*
- Exceptional Platform Processing Power
- Selectable Bandwidth Settings: 5/10/20/40MHz
- High Gain Antenna: 23dBi - Increases Output

Power And Receive Sensitivity

More Information Available

www.zcomax.com/rcp.htm

- Spec Sheets
- White Papers
- Applications
- Software
- Manuals

Applications



Telemedicine

The RCP series of products can be a great tool to establish tele-medical services though email, web and video. This has provided necessary medical care to remote locations, previously unreachable.

Surveillance

Instant access to remote locations and the bandwidth to stream live video makes the RCP series the perfect compliment to any surveillance strategy, no matter how remote.



Industrial

Industrial applications demand critical transfer of information to and from remote and harsh environments. The RCP series enables critical information to be transmitted, without interruption.

Education

Thanks to the RCP, school children in remote villages and even in developed lands can benefit from internet connectivity and access to teachers and curriculum that would be otherwise impossible.



Ordering Information

	R1 Extender	R2 Extender	R2 Base Station
Product Series	Value Series	Power Series	Power Series
Model Number	ZC-3625-5-23	ZC-3625-55-23	ZC-3625-52-23

* Results are as tested with relays and actual results may vary based on environmental and local conditions





Scalability

The Skyport product line was developed with scalability in mind since there is no such thing as a "one size fits all" product when it comes to outdoor wireless networking. In order to keep the client costs down the Skyport line has an embedded antenna but also provides convenience and flexibility of an external antenna connector, should the circumstances require a higher gain or more specific antenna type than the one provided.

The Skyport series has been developed around the 802.11n standard so that you can achieve maximum throughput without losing interoperability with other IEEE 802.11n products

Security

Security has always been a concern for wireless networks. Knowing this, the Skyport was developed with all the latest enhancements in wireless security but also with backwards compatibility to fit into pre-existing networks. The Skyport features: WPA, WPA2, WPA-PSK, 802.1x as well as other security features to best meet your specific needs. Not only does the Skyport support impressive throughput but you can rest assured that your high speed data is secure as well.

Dependability

All Skyport enclosures are weatherproof and will meet a minimum of an IP55 rating to ensure that the high performance electronics remain protected from dust and water and thus providing years of trouble-free service. Without sacrificing water tightness, the Skyport series provides easy access to the PoE connection as well as a hardware reset button without the need for special tools or equipment. The LED status bar on the side of the unit also aids in configuration, at a glance, for added convenience.

Skyport Wireless Distribution System

The Skyport lines of products are not just the "run-of-the-mill" outdoor wireless device. All Skyport products are protected with an IP55 or greater rated enclosure, providing the weather protection needed for outdoor installation. Skyport products are available for different frequencies and with varying antenna types to better match the environment you are concerned with. Utilizing the embedded antenna is a cost effective way of keeping the overall costs associated with CPE installation down. Adding to its value the Skyport products provide AP, CPE and Point to Point features so that you do not have to stock multiple models for varied networking needs. The Skyport series provides land-line comparable broadband speeds along with all the benefits of wireless.

Skyport Advantages

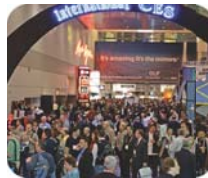
- IP55 Rated Enclosure
- IEEE 802.11n Compliant
- Low Power Consumption
- Access Point, Client, PXP Modes
- Selectable Bandwidth Settings: 20/40MHz
- Integrated Antenna + External Antenna Connector

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Applications



Special Events

The size and convenience of the Skyport line makes it invaluable for temporary or quick setup and installation as needed for special events like conventions or meetings. Bandwidth problems are eliminated with the Skyport's 802.11n capability.

Parks & Recreation

Wireless connectivity is easily implemented with Skyport hardware, adding a layer of convenience and safety to the great outdoors. The external antenna connection allows for local coverage, long distance or backhaul flexibility.



Residential

Where DSL or cable connections are unavailable or impractical, the Skyport shines. With a local AP from a WISP each residence can connect with its own Skyport unit easily and affordably. Easily matching land-line speeds, wireless is a perfect fit.

Campuses

Distributing network resources has never been more simple than with a campus-wide wireless implementation. Wireless can provide efficient, secure connections wherever students are, freeing up classrooms and other valuable space.



Ordering Information

	2.4GHz Frequency	5GHz Frequency
Model Number	ZCN-1523H-2-8	ZCN-1523H-5-16*

* Check availability

Also available in multi-packs. Please contact us for availability and pricing.