

## The Racktivity WhatsInsight Controller

*The WhatsInsight Controller (WiC) offers you two very distinct features. Functioning as an SSL Proxy for Racktivity Metering Devices as well as a data collector for DCPM, the WhatsInsight Controller surely fits your needs. Both functionalities will be scrutinized in following paragraphs.*

### SSL Proxy for Racktivity Metering Devices

As mentioned before, the first feature of the WhatsInsight Controller is being an SSL Proxy for Racktivity Metering Devices. By using port-forwarding, the web interface of connected Racktivity Metering Devices can be accessed through the WiC. In a similar way it is possible to access the Racktivity Metering Devices through SNMP.

For example, if the WiC has a public IP address of 85.25.34.135, you can reach the web user interface of the first connected device by browsing to <https://85.25.34.135:8001/>. All of this is accomplished by a hard link between the private static IP addresses of the Racktivity Metering Devices and the ports used for the forwarding.

This looks like the table below:

IP Address of the Metering Device	Network port on the WiC	
	HTTPS (TCP)	SNMP (UDP)
192.168.82.101	8001	16001
192.168.82.102	8002	16002
...	...	...
192.168.82.200	8100	16100

### Data collector for DCPM

The second feature of WhatsInsight Controller is collecting data from the connected devices, and pushing this data to a service that stores it in the DCPM Database. Supported devices include:

- All Racktivity Metering Devices
- The WhatsInsight Master Sensor
- The WhatsInsight Agent
- Third party devices (PDU, airco, ...) that support:
  - SNMP (Raritan, APC, ...)
  - ModbusTCP (Socomec, ...)

The WiC shall even so allow DCPM to adjust settings on these metering devices without direct access from DCPM to the metering devices.

## Specifications

CPU	Qualcomm Atheros 9331, @ 400MHz
Memory/Storage	DDR1 64MB/ FLASH 16MB
Interfaces	1 WAN, 1 LAN, 1 USB2.0, 1 micro USB (power), 1 Reset button
Frequency	2.4GHz
Transmission rate	150Mbps
Max Tx Power	18dBm
Protocol	802.11 b/g/n
External Storage support	FAT32/EXFAT/EXT4/EXT3/EXT2/NTFS
Webcam support	MJPEG, YUV
DIY features	UART, 5GPIO, 3.3V & 5V power port
External antenna support	No
PoE support	No
Power input	5V/1A
Power consumption	<1W
Dimensions, weight	58*58*22mm, 43g

## Security

RSA support	Yes (2048 bits)
SHA support	Yes (SHA-256)
Security protocol support	TLS1.1, TLS1.2



