



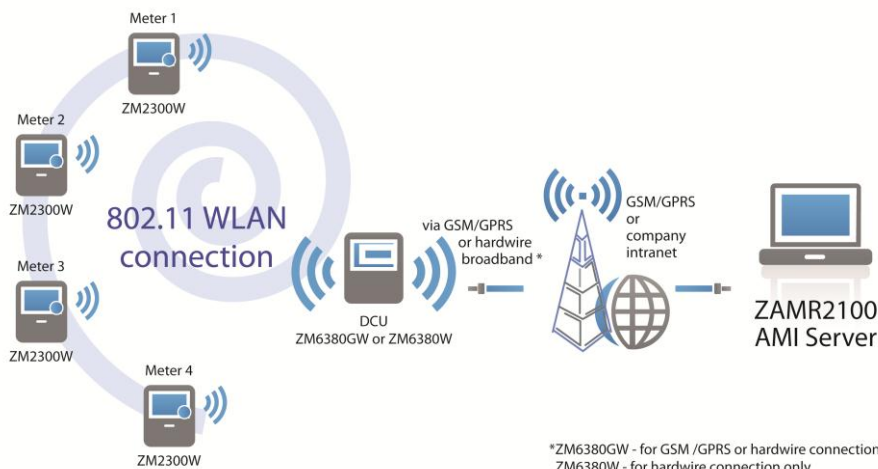
ZM2300W Wireless LAN 802.11 Module

WIRELESS LAN 802.11 MODULE

A COST-EFFICIENT MODULE TO LINK UP A METER TO WLAN

Originally designed to go into an Elster AS230 energy meter, the ZM2300W is an industrial grade 802.11 wireless LAN module. It is easily modifiable to fit into any electricity meter that comes with an RS232 interface. With this module, an energy meter can be connected to a Wi-Fi router or a Zodicom Data Concentrator Unit (DCU) via an 802.11 wireless LAN, and thereby to facilitate remote management of meter data from the central office.

In addition to Wireless LAN, the ZM2300 also runs on GSM/GPRS with Wireless LAN, or GSM/GPRS with short range RF, or possibly GSM/GPRS with Zigbee, giving you the flexibility in a cost-efficient way to meet your special requirements and the unique challenges in individual sites.



Key Features

- Compatible with Elster AS230 electric meters and any meter with RS232 interface
- Fully transparent to meter protocol
- Compatible with existing 802.11 b/g/n infrastructure
- Full 802.11b speeds (11, 5.5, 2, 1Mbps) in RF channels
- Full Wi-Fi and TCP / IP networking
- Support WEP / WPA / WPA2 security
- High-throughput hardware AES and RC4 encryption/decryption engines
- Options also available to run on GSM/GPRS with Wireless LAN or GSM/GPRS with RF or GSM/GPRS with Zigbee



Technical Data

Wireless Specification

Radio Protocol	: IEEE 802.11b/g/n compatible
Data Rate	: 11, 5.5, 2, 1 Mbps (802.11b)
RF Frequency	: 2412 – 2497 MHz
Transmit Power	: 18 dBm
Receive Sensitivity	: -83 dBm at 11Mbps CCK, 8% PER -86 dBm at 5.5Mbps CCK, 8% PER -90 dBm at 2Mbps, QPSK, 8% PER -92 dBm at 1Mbps, BPSK, 8% PER
Security Protocol	: WEP, WPA/WPA2 – PSK, Enterprise, EAP-FAST, EAP-TLS, EAP-TTLS, PEAP
Networking Protocols	: UDP, TCP/IP (IPv4), DHCP, ARP, DNS, HTTP/HTTPS Client & Server
Compliance	: Wi-Fi, FCC, IC, Japan, ETSI, RoHS

Data Interface

Standard	: RS232
Data Rate	: 1.2kbps, 2.4kbps & 9.6kbps

Electrical

Power Supply	: 220VAC \pm 5%
Circuit Voltage	: 3.3V

Mechanical

Dimensions	: 131mm x 53mm x 61mm
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Environmental (Temperature)

Operating	: -40°C – +85°C
Storage	: -55°C – +125°C

Compliance

RoHS and CE compliant

