

CYPLEX

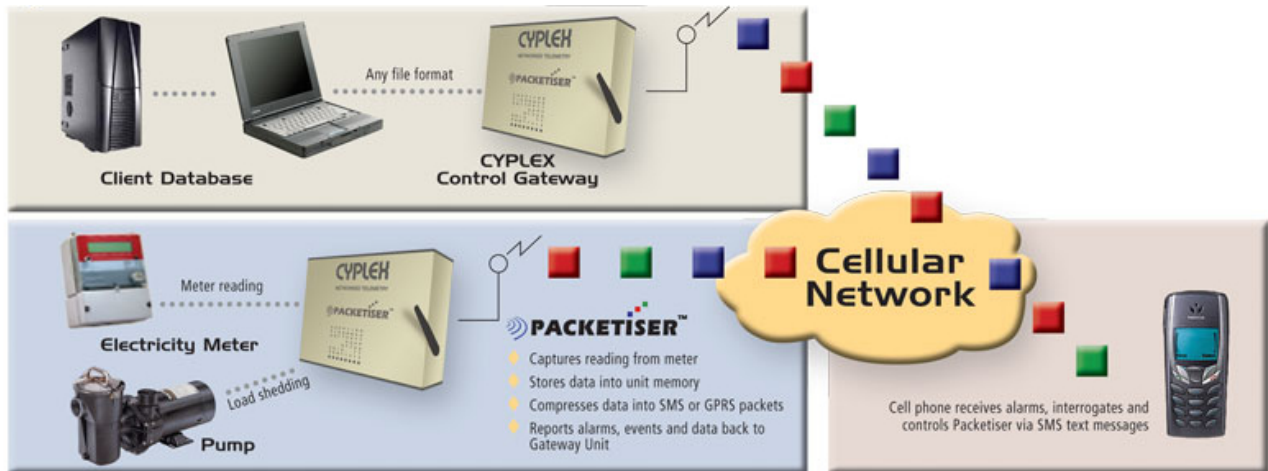
Product Overview



PACKETISER™



When your control is remote...



What is it?

Packetiser is an advanced Telemetry Device that will connect to "smart" RS-232 Gas, Electricity and Water meters or directly to "dumb" pulse output meters, providing low-cost Automatic Meter Reading solutions. Packetiser is suitable for connection to AC, DC, solar and battery power supplies, making it ideal for remote electricity, gas and water meter reading applications.

What can you use it for?

- Automatic Meter Reading (Gas, Water, Electricity)
- Water Conservation
- Remote Monitoring
- Security Applications
- Remote Irrigation Management



Why our Product is World Class...

Darwinian Theory states:

“ present diversity is due to special development and natural selection as a result of an organisms external environment. Those plants and creatures which are best suited to the conditions of their existence survive and become fruitful...”

To use this Darwinian analogy, at the time of the Packetiser's conception, the Australian Telemetry Market had some key environmental characteristics.

- Unusually high SMS cost compared to other countries
- Low network coverage
- Low signal strength in remote areas
- Lack of GPRS connectivity

All these factors caused the CYPLEX Packetiser to evolve in to one of the most efficient SMS based telemetry products in the world.

The high cost of each SMS forced CYPLEX to develop complex compression algorithms to ensure efficiency and integrity of data sent in each SMS message sent. As a result we successfully developed a way to compress over 2000 bytes of data into 1 SMS packet of 135 characters!

- Meter Reading
- Enviro Monitoring
- Vending
- Security
- Telemedicine
- Telematics

CYPLEX Communications

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Key Features

- 3 Methods of Data Transfer (SMS/GPRS/Data Call)
- Real time synchronisation via SMS (Only product in world to do this accurately)
- High Data Compression – 2000 bytes into 1 SMS.
- SMART – The Packetiser is similar to a computer
- Reprogrammable from anywhere (No need to physically be at the unit)
- SMS based data transfer (No expensive back-end GPRS servers required)
- Ability to control individual units and alarms from Mobile Phones
- Entirely user programmable
- Low installation costs (Units self initialise when switched on for the first time)

Key Specifications

Interfaces

- SIM card reader: 3V/5V interface with SIM detection
- LED interface
- Data I/Os
- HD15
- 1 x full RS232 – (9-signal)
- 1 x ADC/digital input
- 2 x digital inputs
- 3 x digital outputs
- 1 x 4.8V DC output (<75mA) *
- Re-configurable as 1 x DO
- RJ12
- 1 x DO (switch to GND)
- 1 x DO (switch to Vin)
- 1 x DI
- CSD asynchronous – non transparent up to 9.6 kbps
- HSCSD (2+1), up to 28.8 kbps
- GPRS Class B (\$+1), up to 85.6 kbps*
- P channel Support
- Coding schemes CS1 – CS4

Data Security

The Cyplex units use multiple compression techniques, which by their nature offer secure transmissions.

Embedded Applications

- OTA script download
- E-Maintenance
- TCP/IP
- Intrinsic TCP/IP protocol stack
- GSM Supplementary Services
- Call forwarding
- Call hold, waiting and multiparty
- Calling/called number identification
- Advice of charge
- USSD
- Alternate line service
- Customer service profile
- Preferred networks
- Operator selection
- Network registration
- Call barring
- Call transfer
- Power save mode
- Vin (input voltage) surveillance feature
- ME + SIM phone book management – read/write/find, call screening, groups, personal rings, settings
- SIM Application Toolkit Class 2
- Real Time Clock
- Software upgradeable
- Audio control
- Fixed dialing number
- UCS2 16 bit data supported
- GPS interoperability

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Where our technology has been used...

It has been clear that the Packetiser has provided real solutions for our customers. Our technology has been proven and operation in the following markets.

Automatic Meter Reading: *Victoria - Australia*

This trial was one of the first to study the application of packet data technology for AMR/Demand Side Management and value-added services in the gas and electric metering market. Exploring the differences between conventional "circuit switched" telemetry and packet based communications methods, the trial proved that the Packetiser is a viable solution for the AMR market, the application it was intentionally designed for.



Water Conservation: *Malaysia*



Our Malaysian office has written significant business from Malaysian Government authorities since the introduction of our product to the market.

Deployed in some of the most remote areas in the world, our units currently control and monitor Government water tanks in the middle of the Malaysian jungle. This has delivered significant cost saving to departments that traditionally relied on staff to physically take readings of tank level by driving to units in incredibly remote locations.

About CYPLEX Communications



International Head Office: SYDNEY, AUSTRALIA

CYPLEX innovations provide new and better ways to control and protect your future.

With over 30 years of engineering experience CYPLEX has a proven record of unmatched excellence in providing scalable cellular mobile solutions, from personal monitoring, to large corporate and public utility applications.

Our products are conceived, designed and produced in-house giving us full control over every aspect of the manufacturing process. There is no compromise. That's why CYPLEX Networked Telemetry solutions continue to be the product of choice.

Specialising in wireless telemetry, Cyplex prides itself on our ability to tailor unique solutions for your remote monitoring needs. Utilising cutting edge wireless technology through our product Packetiser™, our engineering team has successfully tailored solutions that provides highly compressed data transfer via SMS, GPRS or CSDC without costing you a packet!

Malaysian Office: Selangor, MALAYSIA

CYPLEX Communications (M) SDN BHD is the exclusive agent and distributor of CYPLEX innovations in the Malaysian markets. Specialising in Environmental monitoring, particularly in the Water Industries and Non Revenue Water management (NRW), we can provide a number of remote monitoring solutions that are both scaleable and costs effective.

Mexican Office: Chihuahua, MEXICO

WebMonitor is the authorized agent for CYPLEX Communications in the Mexican Telemetry markets. WebMonitor provide leading edge Web-Based monitoring solutions that integrate with CYPLEX's GPRS and SMS Networked Telemetry Solutions.

CYPLEX is proud to be working closely with WebMonitor to bring a versatile and extensive product offering to the Mexican Telemetry Markets.

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