



AnyQuest / EverBlu Option Board

Radio Module for Remote Heat, Cooling & Water Meter Reading

The AnyQuest / EverBlu option board has been designed to fulfil the requirement of utilities and service companies willing to remote read their heat, cooling and water meters by radio in Mobile or Fixed Network in order to improve their productivity and sell extra services to their customers.

As heat, cooling and water meters are an important investment for utilities, the complete Itron CF-family of ultrasonic heat and cooling meter as well as calculators for split meters and the Echodis water meters could be pre-equipped considering actual or future evolutions towards remote reading technologies.

FEATURES AND BENEFITS

- » Ease of Installation
- » Consistent Reliability
- » Advanced functions
- » Compatible with EverBlu Fixed Network
- » Compatible with AnyQuest Mobile solution

Benefits of Wireless Solution

- » Automatic radio meter reading increases the reading reliability and significantly enhances the data acquisition speed.
- » The radio reading opens accessibility to all meters even in the customer is absent or in hard to read locations.

Compatibility

The AnyQuest / EverBlu option board is compatible to all Itron heat, cooling and water meters of the latest CF-family range of products:

- » CF Echo II
- » CF 51 calculator
- » CF 55 calculator
- » CF 800 calculator
- » Echodis

For retrofit of meters already installed in the field the board can easily be mounted in the meters option board slot.

Consistent reliability

The AnyQuest / EverBlu option board is directly interfaced with the calculators micro processor. This guarantees the perfect correlation between the heat, cooling and water meter values and the remote reading index.

The integrity and reliability of this data is key for use in billing applications.

The functionality of the AnyQuest / EverBlu option board is optimized for billing purposes. By standard reading mode, an end of day value of the heat meters registers is transmitted to the reading system.

Powerful and Advanced Features

» AnyQuest

Managed by the RF reading software, multiple data frames could be selected:

Heat & Cooling (standard frame)*	Echodis
- Energy	Index
- Volume	- Flow
- Power	- Operating Time
- Instant Flow	- Alarms
- Return & Flow temperature	
- Alarms	

» EverBlu

Heat & Cooling (standard frame)*	Echodis
- Energy	- 24 hourly index
- Volume	- Alarms
- Power	
- Instant Flow	
- Return & Flow temperature	
- Cooling Energy	
- Alarms	

External water meter inputs

For combined heat, cooling and water-billing applications, the option board also provides two additional input registers for external water meters with low frequency pulse emitters. Each input can be programmed independently with a pulse value and meter offset. The indexes of these two registers are automatically included in the standard reading mode as well as in all fixed date reading frames.

Technical Specifications

Radio Frequency Features

Protocol	RADIAN / EverBlu
Modulation	Frequency Shift Keying
Frequency carrier	433,82 MHz
Radiated power	< 10 mW
Transmission	Symmetrical 2-way communication
Conformity	Compliant with the European R&TTE directive 1999/5/EC

Functional Specifications

Power supply	2 AA lithium battery pack or mains power supply
Battery lifetime	10 years
Operating temperature	5°C - 55°C
Storage temperature	0°C - 55°C

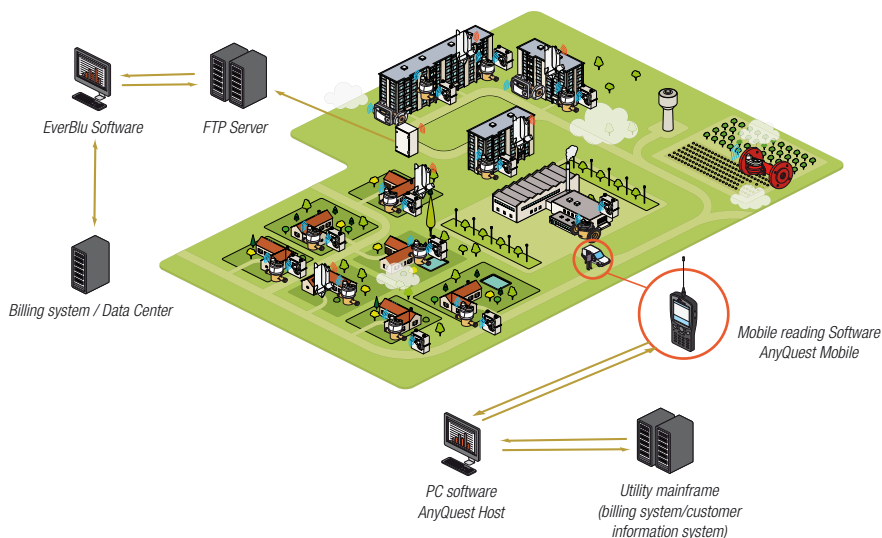
Under normal applications with monthly reading cycle and within the specified operating environment.

Optional pulse input features

Available pulse values	1, 2.5, 10, 25, 100 and 250 litre
Characteristics	Solid state switch, dry contact, reed switch
Contact voltage	Typ. 3 V =
Maximum frequency	2 Hz
Minimum low state time	100 ms
Maximum on resistance	10kΩ
Maximum cable length	10 m

APPLICATION

Due to the wide range of meter types covering sizes from Qp 0,6 to Qp 250 the AnyQuest / EverBlu option board is suited to various applications for residential, commercial and industrial uses.



COMPATIBLE WITH ANYQUEST

Itron offers a complete Mobile AMR solution including handheld terminals, RF interfaces, reading- and routemanagement software as well as RF software drivers*.

* see specific leaflets.

Using the integrated Itron route software in combination with the corresponding handheld terminal, the reader can ergonomically collect meter data either from heat-, water-, gas- and electricitymeters by radio transmission or by manual keying method.



AnyQuest handheld



Our company is the world's leading provider of smart metering, data collection and utility software systems, with over 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water.

To realize your smarter energy and water future, start here: www.itron.com

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