



# Cardiff University: RC1701HP-MBUS4

## Customer and Market Segment

- A top five ranking university in research excellence in the UK

## Application and Solution

### Application

- Greenland ice sheet monitoring (169 MHz)
- Challenge Solved: Help scientists understand how glaciers are moving towards the ocean by reporting on meltwater behaviour located up to 2km within the glaciers



### Benefits of using the Radiocrafts module

- Fast to market, proven quality, VIP support
- Wireless M-Bus Protocol Compliance = One-stop partner for HW and SW
- Supports the high requirements on link stability within a challenging RF environment

### Benefits of Using Technology

- Impressive range: 1.5-kilometre radio range through thick ice
- 169 MHz - Great object penetration and resilience against interference
- Very low power battery operation – 15 years +

## End Equipment

Cryoegg



[Journal of Glaciology](#)

[Application page](#)

## Resources and Collaterals

- [RC1701HP-MBUS4 Datasheet](#), [MBUS User Manual](#)
- Application Notes: [019](#), [021](#), [024](#), [041](#), [043](#)
- Knowledge Base / Q&A: [Wireless M-Bus Knowledge Base](#)
- White Papers: [018](#), [012](#), [011](#), [010](#)
- Webinars: [Everything You Wondered About Setting Up A Wireless M-Bus Network](#)



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Quote: “For this project we were looking for a radio link that offered long range and deep penetration, and which would be quick to design into our instrument. The RC1701HP module proved to be exceptionally easy to use and performed very well in our field tests in Greenland. We’ve also have had great support from the team at Radiocrafts.” – Mike Prior-Jones, Post Doctoral Research Associate