



Free2move Scientific  
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## 1<sup>st</sup> Quarter 2009

### ***5 moves:***

Welcome to a slightly belated 5 moves for 1<sup>st</sup> Quarter 2009.

#### **1. Free2move shipping advanced computer security TAG**

Free2move Scientific has started shipping an advanced active RFID tag for computer protection.

The tag was originally designed in response to the need for protection of assets in the open-air school concepts widely used in the tropical hemisphere. Hundreds of millions worth of computers and lab equipment disappear every year from such schools; and recently cases have been reported of 200 hundred brand new desktops for a computer lab had disappeared from the school in just a few weeks. Screwing the computers to the floor or containing them in steel or concrete cabinets has proven unsuccessful.

The new tag establishes an 'electronic fence' between the protected computer and the reader. Attempts to remove the tag, destroy the tag or circumvent the tag will all trigger an alarm. The tag is fitted with an anti-removal sensor as well as an external sensor to prevent thieves from opening the cabinet of the computer to remove the memory chips and other valuable components. Similarly attempts to destroy the reader or Linux based control unit will also trigger alarm.

An initial installation and concept verification was performed in February 2009 with a Malaysian University. Critical measures of performance such as failure rate and elimination of false alarms were successfully verified.

*Free2move product families included: **F2M07, F2M08, F2M05***



Figure 1 - RFIDS tag with anti-removal sensor

## 2. Rugged TAGs for energy distribution lines

Free2move has been selected as the supplier of rugged and weatherproof passive tags for identification of fixed installed equipment for energy distribution in SE Asia. The contract is via one of Free2move's VARs with operations in the Middle East and SE Asia. The purpose of the tags is to provide a rock solid identity of a specific equipment in order to facilitate maintenance and inventory control. The tag is ISO 18000-6c compliant with 64-bit TID and good metal performance. The scope involves at least 50,000 tags and 500 handhelds to be shipped within Q3-Q4 of 2009 and Q1-Q2 of 2010.

Free2move product families included: **F2M09**

**18000-6c**



## 3. Free2move's UnCord serial port plug is shipping

Offering robust implementation of serial communication, a code efficient and versatile Wireless UART, up to 500 metres (1500 feet) range, multiple power options and a practical format with improved user interface and easily accessible fixing screws, Free2move's UnCord Bluetooth v2 serial port plug is now shipping.

Free2move product families included: **F2M01**

**uncord**  
SERIAL PORT PLUG



## 4. RFIDS™ PoE reader

Free2move's active RFID reader F2M07 is now available with PoE support according to the IEEE 802.3af standard. With PoE, the readers can be cabled up using Ethernet 10BASE-T or 100BASE-T cables only and power will be supplied via the existing RJ45 connector.

The availability of PoE support reduces installation time and cost significantly and will also remove the need for separate power supplies. Multiple readers can be supported via PoE injecting routers and switches over large networks.

Free2move product families included: **F2M07**

**RFIDS™**  
Sense & Make Sense



## 5. Free2move introduces low cost active TAG

Free2move is shipping a new low cost active TAG for asset tracking. The TAG measures only 40 x 29 x 13 mm in IP54 enclosure. The TAG is fitted with flanges for easy fixing with screws, alternatively without flanges for VHB tape. The TAG has two battery options, replaceable coin cell or fixed coin cell.

Free2move product families included: **F2M08**



Figure 2 - F2M08-200 fixed to a Korg X5DR synthesiser

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