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5 moves:

1. World's first combined building & asset security system deployed at Siemens, Malaysia.

A world leader in building security Bluetooth® and automation, Siemens offers a complete technical infrastructure for security, fire safety, comfort and energy efficiency in buildings and public places. With the addition of Free2move's active RFID technology of the F2M07 and F2M08 product families, this technical infrastructure can now offer asset security and tracking as part of Siemens' overall building security and automation portfolio.

The new system involves passive RFID personnel ID cards combined with long range active RFID asset tags, which are sufficiently small to be hidden inside most notebooks, to allow asset movements to be controlled according to a central policy. The central policy is based on asset ownership, authority, time of the day and location. Examples of such controlled movements can be whether or not to allow an asset to exit from a secured zone. This first deployment encompasses up to 700 computer notebooks and 10 doors secured by Siemens SiPort door access system.

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

2. Popular Bluetooth® module upgraded from Bluetooth® v1.1 to v2.0.

Free2move's F2M03AC2 Bluetooth® SMD module with built-in Audio CODEC and Antenna is being used in a plethora of devices across the world, from special purpose mobile phones, to industrial handhelds, headsets, geodetic survey equipment, machine control units, sensor networks, RFID readers, barcode scanners, data collection, remote sensors, microphones, wireless electricity meter reading, as well as various wireless healthcare devices.

Free2move would like to announce that F2M03AC2 is now being upgraded from Bluetooth® 1.1 to v2.0. The upgraded module is designated F2M03ALA. Apart from being backwards pin and footprint compatible with the F2M03AC2; and offering audio CODEC and pre-certification (Bluetooth® SIG, CE and FCC) as a complete Bluetooth® system; the new module will also include new Bluetooth® v2.0 capabilities in the same small form factor.

New Bluetooth® 2.0 capabilities include: enhanced data rate (EDR), enhanced audio quality, hands-free profile (HFP) and adaptive frequency hopping (AFH) eliminating interference from WiFi.

The following upgrade paths apply:

F2M03AC2-101 replaced by F2M03ALA-S01 (Wireless UART with SPP)

F2M03AC2-103 replaced by F2M03ALA-S03 (Headset profile, HSP)

F2M03AC2-104 replaced by F2M03ALA-S04 (HCI for USB)

Customers of Free2move who are using custom firmware with specific capabilities (F2M03AC2-105) will be advised about the appropriate upgrade path.

F2M03ALA will be available as samples in Q1-2008 and in full scale production in Q2-2008.

*Free2move product families included: **F2M03***

3. G.A.P.S. the anti-theft RFID tag with worldwide coverage.

Free2move has announced the F2M12 family of GPS and GPRS tags (or Global Access and Positioning System, G.A.P.S.).

The RFID tag embeds GPS, GPRS and sensing capability within a small, rugged and cost effective form factor. By using GPRS rather than traditional RFID readers, the coverage is literally world-wide. F2M12's on-board motion sensor will detect if an asset is moved and give reports according to the policy set by the user, straight to a mobile phone or an Internet server.

For theft-prevention and tracing, the F2M12 can be fitted with a microphone, enabling the user to call up the tag to listen and/or record noises, e.g. thieves talking. Additionally, like Free2move's F2M08 family of tags, F2M12 can be fitted with other types of sensors, such as temperature and humidity.

The F2M12's security policy can be downloaded to each installed tag over the air, making it possible for the user to change behaviour of a large number of installed and geographically dispersed tags at the same time according to a central policy.

F2M12's intended applications include: monitoring and tracking of vehicles, machinery, high value goods, containers, homes, warehouses, stores, remote branches, infrastructure equipment (e.g. energy, water, telecommunication and transportation), ships and other vessels.

*Free2move product families included: **F2M12***

4. New Stereo HiFi, MP3, Bluetooth® module receives enhanced capabilities.

Wireless Audio Headset (WAH) is a new firmware from Free2move developed for the Multimedia Bluetooth® module F2M03MLA. The firmware is designed

for easy connectivity to mobile phones incorporating the latest audio features in the Bluetooth® technology. Following Bluetooth® profiles are supported in WAH: A2DP, AVRCP, HFP, HSP and SPP where all profiles are acting as the headset side for communication with e.g. mobile phones. The firmware can either be controlled individually with a button interface or from an external microcontroller using the UART interface with easy to use AT-commands. The F2M03MLA module with the WAH firmware is typically embedded into high-end Bluetooth® stereo headsets.

F2M03MLA is a low power embedded Bluetooth® v2.0 multimedia module with an on board antenna, integrated stereo amplifier and a 32 bit Digital Signal Processor (DSP) for audio coding and advanced noise and echo cancellation. With a transmit power of up to +8dBm and receiver sensibility of down to -81dBm combined with stereo sound and low power consumption the F2M03MLA is suitable in most audio applications. Developers can easily implement a wireless solution into their product even with limited knowledge in Bluetooth® and radio design. The module is fully Bluetooth® v2.0 qualified and it is certified according to CE and FCC.

*Free2move product families included: **F2M03***

5. Combined security, payment, safety and attendance RFID tag

Free2move Asia & Pacific is announcing the availability of a combined passive and active RFID tag for door access and personnel tracking. The new tag is ISO-14443 (Mifare) compliant as well as providing a long range (up to 60 metres) tracking capability.

The tag, designated F2M08CM0, is card shaped and intended for fixing to necklace or breast pocket like traditional personnel ID tags. Through its Mifare compliance, it can be used as a payment and ticketing smartcard for entertainment parks, university campus or other communities; while at the same time, through its active RFID capability, offer continuous location information for applications such as attendance management, safety, policy enforcement and personnel search.

The tag allows for front-side printed sticker, e.g. photo, name, job and barcode.

*Free2move product families included: **F2M08***

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