

A Technology e-News Letter from UMD (Unique Micro Design)

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RFID Update

4W Resolution

As you may be aware, Australia has had some regulatory issues that have significantly hindered the adoption of UHF RFID applications in supply chain applications.

In summary, Australian regulation for RFID readers has been limited to 918 to 926MHz at a maximum power of 1 Watt EIRP. Supply chain and other applications need 4 Watt in order to get a usable read range (typically 3m under 4W and less than 1m under 1W).

Over the last three years *GS1 Australia* in conjunction with the industry, including UMD, and the Australian Communication and Media Authority (ACMA) have been working towards increasing the class licence to 4 Watts in the 920 -926 MHz band.

I am pleased to advise that the variation to the Radiocommunications Class licence to allow 4 Watt is now legal and is listed in the Commonwealth Federal Register.

Details can be found at:

<http://www.comlaw.gov.au/ComLaw/Legislation/LegislativeInstrument1.nsf/all/whatsnew/B206CC850F794786CA25753700036CD2?OpenDocument>

This is very significant, as this 4W issue has been the major cause for the lack of RFID UHF adoption in the supply chain.

UMD RFID Update - Tags

UMD's RFID tag offering continues to expand, including "stocked" tags.

A key element in developing RFID solutions is the ability to read RFID tags in the required environment. As there are many design parameters that can affect the readability of tags, tag selection is a critical element to the success of an RFID project.

UMD continues to expand its *RFID tag reference library*, which has in excess of 100 different RFID tags in a variety of technologies, packaging and sizes. The following picture gallery shows some of our stocked RFID tags.



UMD RFID Update - Readers

UMD's RFID reader range is also expanding, with new models currently being evaluated.

 <p>UMD M641 Horse Verifier LF</p>	 <p>Intermec IF30</p>	 <p>Symbol XR440</p>
 <p>Wireless Dynamics SDIO Cards HF</p>	 <p>Intermec IV30 Vehicle Mount UHF</p>	 <p>Symbol MC9090G UHF</p>
 <p>Intermec IP30 UHF Hand Held</p>	 <p>Sick RF1341 HF</p>	 <p>SkyeTek HF & UHF modules</p>

2009 Outlook

As a value added distributor we talk to many customers and are therefore able to provide an overview of where we see the market heading,

Despite the Global Financial Crisis we are very optimistic about 2009. In fact we believe that when times get tough, customers automate to improve efficiency, save cost and improve customer service. Much of this relies on providing real time visibility.

At a high level view, this real time visibility is based on adding “edgware” technology to enterprise software. This involves adding sensing and mobile technology, i.e. “eyes” and “ears”, to software systems.

However, edgware is not simply the addition of a “barcode” scanner to a terminal, but generally requires an intelligent middleware solution offering to collect, manage, control, filter, visualise and interface sensing devices to enterprise systems, to compensate for the limitation of Enterprise software.

It also requires a much more sophisticated supplier, like UMD, who can **engineer ICT solutions** to meet customer specific needs.

In 2009 we will continue to see the growth of RFID technology, barcoding and mobility, key components for delivering “intelligent sensor networks”.

Thus with the resolution of the 4 Watt issue (see above) we expect our “Business Solutions Team” to be very busy this year.

New Products

New Products

- 1) [Intermec CK3 RF Mobile Terminal](#)
- 2) [Intermec SR30 Hand Barcode Scanner](#)
- 3) [Intermec SR61EX Extra Long Range Industrial Barcode Scanner](#)
- 4) [Intermec PF8d Direct Thermal Desktop Printer](#)
- 5) [Intermec PF8t Thermal Transfer Desktop Printer](#)
- 6) [Casio DT-X7 Hand Held Barcode Terminal \(CE 5.0\)](#)
- 7) [Denso AT10Q 2D Hand Held Barcode Scanner](#)
- 8) [Denso BHT500 Compact Mobile Terminal](#)
- 9) [Denso BHT700 Hand Held Computer \(CE 5.0\)](#)
- 10) [Senor COMPOSER Industrial Mount Panel PC](#)

On Line Custom Labels Quotation System

UMD have developed an on-line Label Quotation System that provides real time quotation of custom labels.

<http://labels.umd.com.au/>

As usual, please contact sales@umd.com.au for any queries.

Regards

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