

# DM9003-E5 Migration to DM9006

## Application Note



聯傑國際股份有限公司

## Hardware Change

Item	New Features
1	IGMP Snooping
2	Port Security
3	Add register to tune TX amplitude
4	Add RX CRC checking status
5	Option of LED to high active, separate traffic LED to LINK and ACTIVE LEDs
6	Prevent continued TX_REQ command (REG2H.0)
7	Delayed interrupt from IMR
8	Discard broadcast packet if size > 256 bytes
9	Command to skip to next RX packet

## Software Change

	DM9006 New Driver Software:
Linux	lnx.dm9006(v2.00).rar
Windows CE	ce.dm9006(v2.00).rar

Change in Product ID Registers				
	Bit	Name	Default	Description
DM9003-E5	7:0	PIDH	PE,90H,RO	Product ID High Byte (2BH)
	7:0	PIDL	PE,03H,RO	Product ID Low Byte (2AH)
DM9006	7:0	PIDH	PE,90H,RO	Product ID High Byte (2BH)
	7:0	PIDL	PE,06H,RO	Product ID Low Byte (2AH)



聯傑國際股份有限公司

## **Customer Impact of Change and Recommended Action**

In terms of hardware, designs for DM9003-E5 based on application schematics provided by Davicom can interchange DM9006 without any issues. The DM9006 is schematically pin-to-pin compatible to all hardware applications of DM9003-E5. In addition, new improvements were integrated in the new DM9006 such as IGMP snooping and port security.

In software, new DM9006 driver software will be provided in Linux (lnx.dm9006(v2.00).rar) and Windows CE (ce.dm9006(v2.00).rar) format. Once installed, the new DM9006 driver software is backwards comparable with the DM9003-E5 driver. In terms of the register ID, the DM9006 ID is different from the DM9003-E5. If customer software does check for the ID on the DM9003-E5 then modification will to be made to check for the different ID of the DM9006. If customer software does not specifically identify the product ID register, then no modification will be necessary with the usage of the DM9006.

## **PCN Revision History**

**Date of Revision:**  
June 24, 2010

**Revision Number:**  
00

**Reason:**  
Originally Published PCN