## Product Change Notification: XBee-PRO DigiMesh 900 Firmware Update

Overview of Change

On June 18, 2009 the XBee-PRO DigiMesh 900 module production firmware was changed from 1820 to 8042. New revisions will be in stock and begin shipping on July 15, 2009. Orders that ship prior to July 15 will have firmware 1820. Orders that ship on or after July 15 will have firmware 8042.

## Details:

- New firmware 8042 offers these significant enhancements to 1820:
  - Added ADC/DIO support
  - Improved drift rate calculation by ~40%, which reduces wake time requirements and ultimately increases battery life
  - Added flexibility for synchronizing mixed networks of both sleeping and non-sleeping nodes
  - Still no single point of failure with key features like sleep coordinator nomination
  - Button-press synchronization
  - Added user control over diabling route discovery to minimize network traffic
  - Still offers best-in-class interference immunity using a unique combination of frequency hopping spread spectrum and self-healing mesh networking
- As a result of these enhancements, 8042 is NOT BACKWARD COMPATIBLE with 1820 firmware. Networks with mixed nodes (some with 1820, some with 8042) will not operate properly. We recommend re-flashing all nodes with 8042 firmware.
- For customers who wish to test the new firmware 8042, it is available immediately for download by using X-CTU > Modem Configuration tab > Download new versions... button > Web.
- More details can be found on our Support site at http://www.digi.com/support/productdetl.jsp?pid=3518&osvid=0&s=377&tp=2, including:
  - Firmware revision history
  - Firmware download
  - Instructructions for downloading and installing new firmware

See page 2 of this PCN for a sample XBee label and how to find the Revision and other relevant information.

Product Part Numbers Affected	Effective Date	Pricing Changes	New Revision	Hardware Changes	Software Changes	Other
XBP09-DMSIT-156	6/18/2009	None	D	None	8042 firmware	NA
XBP09-DMUIT-156	6/18/2009	None	D	None	8042 firmware	NA
XBP09-DMWIT-156	6/18/2009	None	D	None	8042 firmware	NA
XBP09-DMDK	6/18/2009	None	В	None	8042 firmware	NA



Location of label items will vary by product, and may change over time.