

**Product Change Notification – PCN # PCN No.**

15<sup>th</sup> Dec. 2017

Dear Valued Customer:

The purpose of this letter is to inform you that Moxa is planning to implement a change to certain products. Please review the detailed information given below to determine how these changes will affect your products and/or processes. If you have any questions regarding these changes, please contact Wen Hsuan Chen, Moxa Wireless.

**Subject:**

Change in the default antenna shipped with the AWK-3131A—ANT-WDB-ARM-02 to be replaced with the ANT-WDB-ARM-0202.

**Service Level:** Basic

**Effective Date:** 1<sup>st</sup> April 2018

**Model Names/ Current Version/ New Version:**

Model Name	Current Version	New Version
AWK-3131A	V2.0.0	V2.1.0

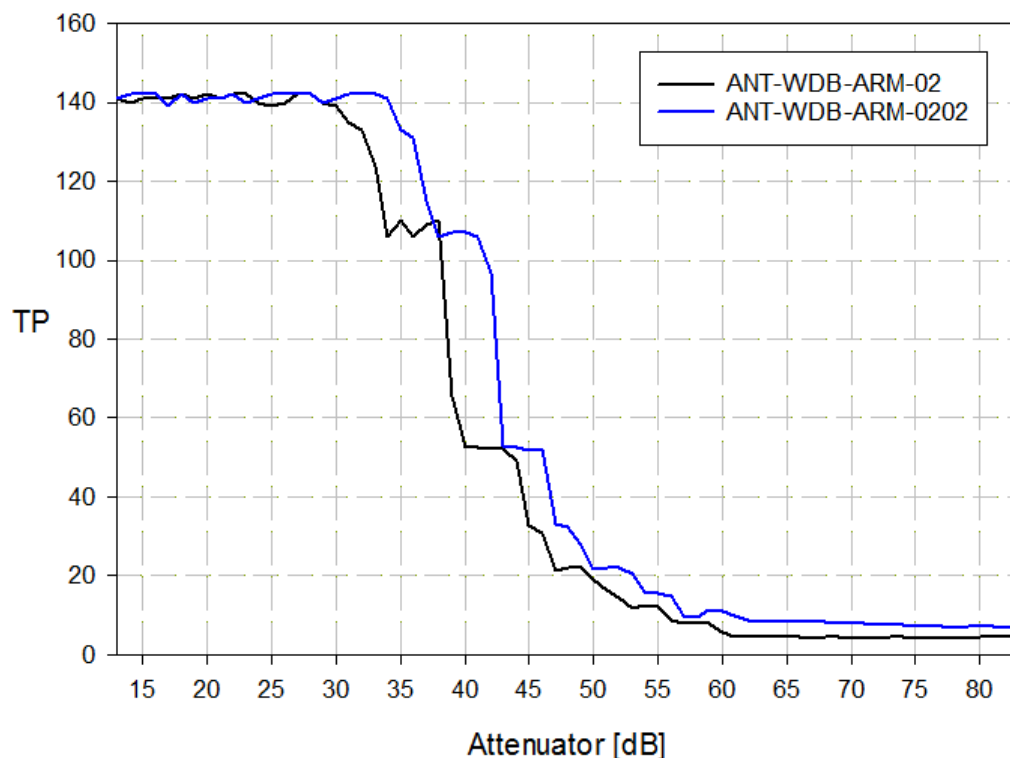
**Change Description:**

In order to ensure a better user experience for the AWK Series products, Moxa will offer a new default antenna, ANT-WDB-ARM-0202 with the AWK-3131A. A comparison of the new default antenna with the previous one is provided in the table below:

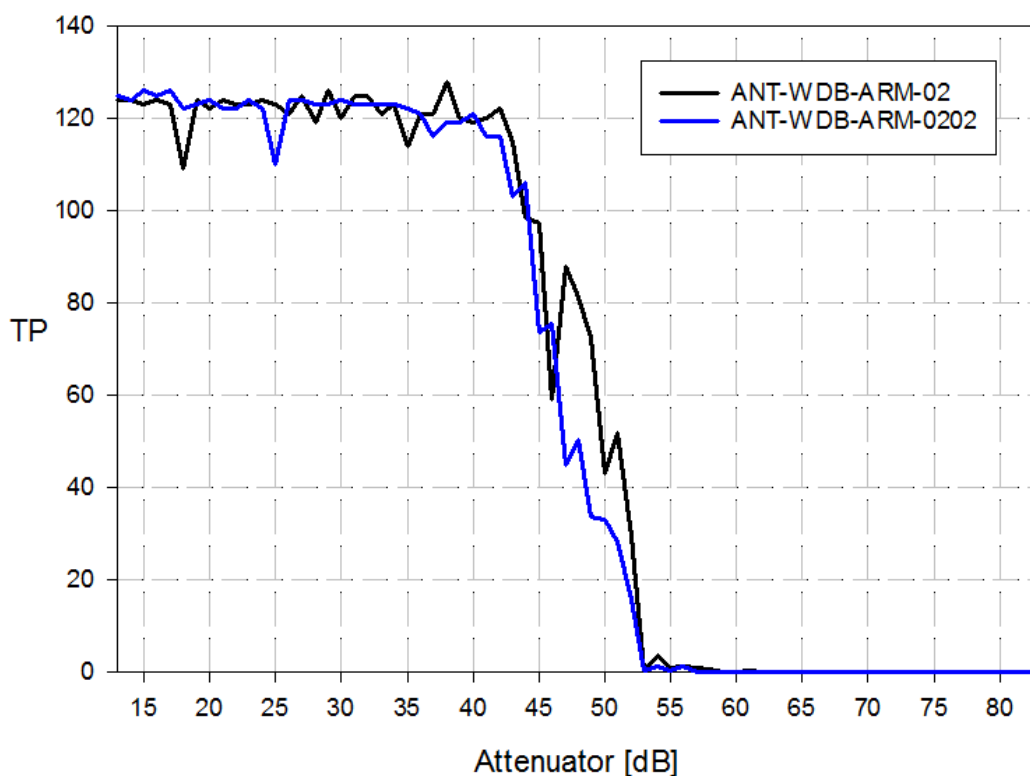
Antenna	ANT-WDB-ARM-02	ANT-WDB-ARM-0202 (New)
Type	Omni-directional	Omni-directional
Frequency	2.4 to 2.5 GHz/5.2 to 5.8 GHz	2.4 to 2.5 GHz/4.9 to 5.825 GHz
Gain	2 dBi/2 dBi	1.8/1.8 dBi
Return Loss	-7.5 to -14.1 dB	-16.5 to -50.2 dB
Radiation Efficiency	77% @2.4 GHz 60% @5 GHz	73% @2.4 GHz 75% @5 GHz
Connector	RP-SMA (male)	RP-SMA (male)

Since the antenna gain on the ANT-WDB-ARM-0202 is not higher than the ANT-WDB-ARM-02, the existing radio certifications are still valid. The ANT-WDB-ARM-0202 guarantees less radiation return loss and better radiation efficiency.

The following two graphs show that given identical RF attenuation situation, the ANT-WDB-ARM-0202 can deliver higher throughput, over both the 5 GHz and 2.4 GHz frequencies, as compared with the ANT-WDB-ARM-02.



(a) Throughput performance (TP) over 5 GHz vs. RF attenuation



(b) Throughput performance (TP) over 2.4 GHz vs. RF attenuation

For a detailed specification of the ANT-WDB-ARM-0202 antenna, visit:

<https://www.moxa.com/product/ANT-WDB-ARM-0202.htm>

### **Delivery Schedule:**

The AWK-3131A Series V2.1.0 will be available to ship starting **April 1<sup>st</sup>, 2018**.

### **Note:**

1. If you are using the AWK-3131A Series V2.0.0 and require additional units of the same, be sure to place your orders before March 1<sup>st</sup>, 2018. We cannot guarantee that sufficient supplies of AWK-3131A Series V2.0.0 will be available after this date.
2. Moxa will continue to supply the AWK-3131A V2.0.0 units and do a running change to phase in the AWK-3131A Series V2.1.0 units. The target launch date for the AWK-3131A V2.1.0 is currently set at April, 2018.
3. The ANT-WDB-ARM-02 antenna is still available for order.

<https://www.moxa.com/product/ANT-WDB-ARM-02.htm>

Note: For questions, contact the Product Manager Wen Hsuan Chen, [wenhsuan.chen@moxa.com](mailto:wenhsuan.chen@moxa.com) or your regional sales contact.