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Fixing the OMNIxi (RS-530A) – KlasTA Reset Problem

The information in this article applies to:

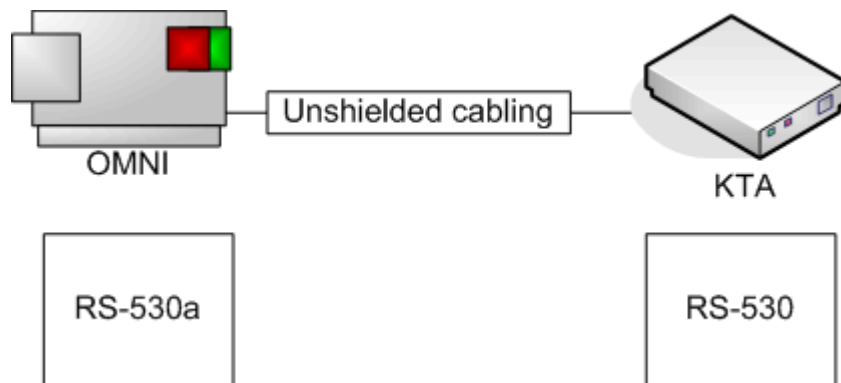
- OMNIxi
- KlasTA

Summary

It has been found that some KlasTA devices may continually reset when connected to the BLACK data-port of the OMNIxi. This document describes the reasons for the problem and also provides some solutions to the problem.

Explanation

The problem occurs when the KlasTA in question is connected to an OMNIxi that has a pre v3.0 version and that also has its BLACK data-port setup in RS-530A mode. The OMNIxi does not tie the DTR B (23) pin to ground (as this pin is not used in RS-530A signalling) and so it is left to float and is therefore liable to pick up random signalling from other pins if it were to pass through cabling that was not properly shielded. As the KlasTAs data-port uses RS-530 signalling, this DTR B (23) pin is monitored and if it is seen to be random and of a high frequency, a KlasTA system reset may occur.



Solution I – Use shielded cabling

The first solution is to use properly shielded cabling. This will prevent any contamination of the DTR B (23) pin by other pins. However you must ensure that all the inline cabling is shielded. If you were to use a shielded cable that was connected to an unshielded cable, signal leakage may still occur.

Solution II – Disconnect the DTR pins

If you disconnect pins 20 (DTR A) and 23 (DTR B) on the cable connector that attaches to the KlasTA, the KlasTA will not notice any fluctuations that may occur in the cabling. You can do this by disconnecting the pins in the cable used or, more simply you can put 2 gender benders inline; one of which will have pins 20 and 23 disconnected.

MORE INFORMATION

For more information about the KlasTA and other Klas products, visit the following Klas website:

www.klasonline.com

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