



## **STAR-Ultra PCIe**

### **Hardware update release notes**

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## 1 Release notes

The document describes the STAR-Ultra PCIe hardware releases.

The hardware version of this release reported by the STAR-Ultra PCIe Controller application is “v1.01(10) – 02-10-20 12:00”.

The Device Information tab is shown below.

### Device Information

Device Type : STAR-Ultra PCIe  
Device Version : 1.01(10)  
Build Date : 02-10-20 12:00

## 2 Hardware updates

Hardware updates are released to add new features and fix known issues.

A hardware update is comprised of an update data file with “.dat” extension which is used with the STAR-System Device Update software to update a STAR-Ultra PCIe card to new version.

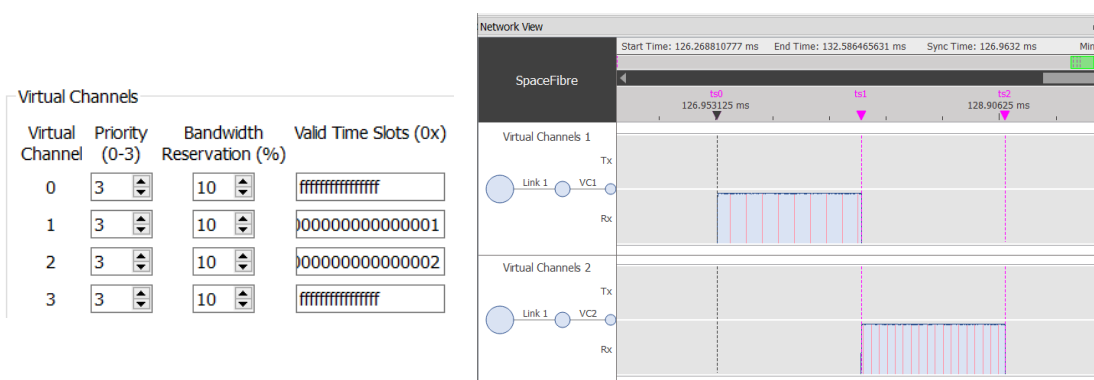
## 3 Hardware Change log

An overview of hardware changes is listed below.

### Version 1.01(10):

1. Support for scheduled Quality of Service support with configurable timeslot period. The timeslot period can be configured in increments of  $2^{-16}$  seconds, or about 2.259 microseconds. The increment is approximated to 15.26 microseconds and the default increment after power on or reset is approximately 1 millisecond ( $65 * 15.26$  microseconds). Optional synchronisation with broadcast message will be supported in a future hardware update.

The valid sending time slots of each virtual channel is configurable in the STAR-Ultra PCIe Controller software under “VC Summary” tab. An example Controller setting for virtual channel 1 and 2 sending in timeslots 0 and 1 respectively is shown below with the accompanying Analyser view.



*Virtual channel 1 & 2 valid time slot configuration and associated Analyser view*

### Version 1.01(9):

1. Initial release version