FIRMWARE RELEASE NOTES

Model: Matrix 2.0 (MX2)

Version: 2.1.164

Date: August 2019

Firmware Release Notes for MX2 v2.1.164 indicate revisions made to the MX2 Firmware version since the release of the MX2.

Compatibility

MX2s running firmware v2.1.164 are compatible with all PhysioTel Legacy and PhysioTel HD implants, and Ponemah versions 5.20-SP5+ and 6.00+.

Release History

Version	1.0.7*	1.0.8	1.0.9	1.0.10	1.0.11	1.12.190	2.0.97	2.0.122	2.1.164
Release Date	Dec 2014	DSI Internal Release	Feb 2016	June 2016	Jan 2017	Sept 2018	June 2019	June 2019	Aug 2019

*Original firmware released with MX2.

New features, enhancements, and fixes

Reference #	Release Version	Description	Disposition
45348	2.1.164	Fix added for implants not transitioning from their Pending state to Acquiring upon starting acquisition.	Fix
44899	2.0.122	Fix added for potential false double-pulse near top of second when using digital input samples.	Fix
42581 41860 41858 43239 43840 44619	2.0.97	Added support for the DSI Signal Interface.	Enhancement
43916	2.0.97	Added Finished goods number and revision the Diagnostic homepage.	Enhancement

42351	1.12.190	The NTP Configuration file was updated reduce the polling time from 64 seconds to 8 seconds to more quickly react to time synchronization changes.	Enhancement
42421	1.12.190	Updated the MX2 host name from a generic name to the device name to permit log files to be more easily read.	Enhancement
39284	1.12.190	Updated the firmware change version scheme to include a unquie build number; i.e. changing from 1.0.11 to 1.12.x, where 'x' is the build number.	Enhancement
39282	1.12.190	An system verification step was added to the firmware upgrade process to ensure the update is written correctly. If a failure occurs, the system will automatically retry.	Enhancement
37539	1.12.190	Fix was added for a mismatch in error codes which caused a misinterpretation of the message being sent from the MX2 to the system.	Fix
37184	1.0.11	Fix for the MX2 getting into a state where it would never connect to the network or lose communication with the network after a few minutes. When the MX2 was in this state, the user would see the Power, Status, and Error LEDs illuminated on the front panel.	Fix
37021	1.0.11	A button has been added to the MX2 diagnostic webpage's System Status page to allow the user to more easily download the MX2 log files.	Enhancement
34407	1.0.10	If Ponemah was actively sampling from an implant that was in OFF mode or not within the reception range of the receiver for an extended period of time, additional implants on the acquisition system would lose data. This has been corrected.	Fix
34286	1.0.10	Fixed issue where MX2 diagnostics page would list multiple System IP Addresses.	Fix
34084	1.0.10	Fixed rare issue that prevented the MX2 from being able to boot up properly after upgrading MX2 firmware.	Fix
32902/32500	1.0.9	During data acquisition, communication processes internal to the MX2 hardware may have led to sporadic data dropout. Dropout caused by this issue would impact <1% of the total data collected. This has been corrected.	Fix

28697	1.0.9	Intermittent spikes in the Signal Strength signal during data acquisition has been fixed.	Fix
27819	1.0.9	The Signal Strength (RSSI) webpages have been updated to appropriately format the graph labels when using any web browsers.	Fix
27629	1.0.9	The description of the Matrix 2.0 has been updated to MX2 within the MX2 Diagnostics page device selection dropdown.	Fix
30814	1.0.9	The MX2 clock synchronizes to the acquisition computer once it has been added to the MX2 Configuration. Once synchronized, the MX2 would intermittently not be found by the acquisition computer. This issue was time dependent, causing the intermittent nature of the issue. This has been corrected.	Fix
30725	1.0.9	Added the ability to manually configure the NTP Server's IP address within the MX2 Diagnostics Network page.	Enhancement