

FIRMWARE RELEASE NOTES

Model: Transceiver (TRX)
Version: 6.341
Date: February 2025

Transceiver (TRX) Firmware Release Notes for version 6.341 indicate revisions made to the TRX Firmware since its initial release. The firmware is responsible for sending commands to the TRX when commanded to by the CLC, and for detecting and transferring the data from the PhysioTel Digital implant back to the CLC.

Compatibility

All TRX Firmware versions are backwards compatible with all CLC firmware versions. They are also compatible with Ponemah versions 5.10, 5.20, 6.10-6.30, and any associated service packs.

TRX Firmware v1.30009 or older should be updated to version 1.36000 to be compatible with new implants. TRX Firmware v1.46186 or new should be upgraded to v6.341 in order to take advantage of improved communication protocol.

Newer TRX Firmware versions may not be compatible with older versions of TRX Hardware. Module versions of the TRX hardware are compatible with all versions of the TRX firmware if the update is performed at the DSI facility, but it will not be compatible if the update is performed in the field. CSP versions of the TRX are not backwards compatible with older firmware (1.21248 or 1.30009).

Accessing the TRX Status page from the CLC webpage can tell what version of the TRX is connected to the CLC. The assembly revision of 4 is a module TRX. Assembly revision of 5 is a CSP TRX.

TRX Status	
TRX 1	TRX 2
Enabled: <input checked="" type="checkbox"/>	Enabled: <input checked="" type="checkbox"/>
CONNECTED	CONNECTED
Model Number: 39169	Model Number: 39169
Serial Number: 14867	Serial Number: 11457
Manufacture Date: 2018-06-11	Manufacture Date: 2013-09-25
Assembly Revision: 5	Assembly Revision: 4
Loader Revision: 1.59223	Loader Revision: 1.18826
Firmware Revision: 5.21762	Firmware Revision: 1.36000
Error Status: 0	Error Status: 0
Last Error: 0	Last Error: 0
POST: 0	POST: 0
TRX 5	TRX 6
Enabled: <input type="checkbox"/>	Enabled: <input type="checkbox"/>
NOT CONNECTED	NOT CONNECTED
Update Enables	

DSI recommends updating the CLC firmware to the latest version prior to updating the TRX firmware as this will improve the reliability of updating the TRX firmware.

Release History

Version	1.21248*	1.30009	1.36000	1.46186	1.52042	5.21762	6.341
Release Date	July 2012	May 2013	October 2019	March 2015	January 2016	October 2019	February 2025
Recommend version to upgrade	1.36000	1.36000	--	6.341	6.341	6.341	6.341

*Original firmware released with TRX.

New features, enhancements, and fixes

Reference #	Release Version	Description	Disposition
51662	6.341	Updated for CLC firmware v6.341 support. TRX assembly 4 and older are not compatible.	Enhancement
46044	5.21762	Optimized radio performance for improved communication and robustness with Physiotel Digital implants.	New
N/A	1.52042	Added more test frequencies for manufacturing support.	Enhancement
N/A	1.46186	Added support for a replacement radio CSP board.	Enhancement
N/A	1.36000	Optimized radio performance for improved communication and robustness with Physiotel Digital implants.	New

N/A	1.30009	<p>The firmware update suppresses the RSSI (Received Signal Strength Indicator) Unavailable error message. If this error occurred as a pop-up indicating:</p> <p>“TRX SN xxxxx error at Jx of CLC:DSICLC-serial number: TD 16202: TRX error”</p> <p>The RSSI represents the strength of signal the TRX detects from an implant. This error occurs if the TRX does not receive a valid RSSI value. The CLC uses the RSSI value to rank the signal strength of the connected TRXs. The CLC will use data from up to 3 TRX to send data to the system. When a TRX does not receive a valid RSSI value it will provide the CLC a low RSSI value such that it will be ranked last by the CLC. If 3 or less TRX are connected to the CLC there will be no effect on the system. If more than 3 TRX are connected then data from the TRX will not be used as at least 3 other TRX will have a larger RSSI value.</p>	Enhancement
N/A	1.30009	<p>The firmware update fixes an issue that improves the speed and reliability for PhysioTel Digital systems used in Europe. In Europe, DSI was required to implement a listen before talk protocol. Here the TRX listens for an RF device (other than an implant) before sending a command to the implant. When the TRX detects an RF device with sufficient power, it will not send the command to the implant until the detected RF is gone. Occasionally, the TRX was unable to determine the difference between RF from another device and an implant attempting to be recognized by the system. The firmware update enables the TRX to distinguish between the two, allowing the implant to be recognized by the system.</p>	Fix