WNI-32 NCE Pro Cab Wi-Fi Interface Module

Compatibility, Firmware Issues and Workarounds

This document is online at http://www.wifitrax.com/manuals/WNI-32/WNI-32-known-issues.pdf.

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Compatibility

Hardware: The WNI-32 has been tested and is compatible with Pro Cab PCB Rev E, F and F2; and Power Cab PCB Rev E, F. some customers have had success with earlier hardware. Some Pro Cabs have the 9-pin JST socket at the end near the socket. Please ask for a longer 9-way JST cable for these.

WNI-32 with serial numbers less than 60200176 need a modification to work with Pro Cab versions manufactured in 2025. These have a PCB Revision "Rev F2". These units can be fixed with the addition of a 100K pull-up resistor between pins 1 and 5 of the 9-pin JST connector. See this document for instructions or contact Wifitrax to return for free modification.

Firmware: Pro Cab Firmware Version 1.3.

Known Firmware Issues

Number	Description	F/W Version found	Work Around	F/W Version Fixed	Comments Relating to fix
1	Recall Stack Issue: When returning to a loco in the recall stack, sometimes functions are reset on the loco.	1.0.11	The functions are not reset when the loco is moving. If the loco is left stationary functions must be reconfigured when returning to the loco in the recall stack.	1.0.12	In version 1.0.11, the WNI-32 is disconnected from the loco being controlled by a WFD-30/31 when a new loco is selected in the recall stack. When the loco speed is zero, the loco page in the WFD-30/31 will be removed. If the speed is non zero it will be retained for continued control at the same speed when the operator returns to the loco in the WNI-32 recall stack. In Version 1.0.12, connection is always maintained to all locos in the recall stack.
2	Recall Stack Issue: When a loco is deleted from the recall stack (by setting the DCC Address to zero), other locos in the stack cannot be controlled.	1.0.11	When removing a loco in the recall stack, you need to re-select other locos in the recall stack.	1.0.12	In versions 1.0.11 all loco connections added to the WiThrottle connection were removed using the MT-*

					command instead of the address of the loco being removed.
3	When a loco is driven using a tethered Pro Cab, turning on a second Wi-Fi Pro Cab (fitted with WNI-32) will stop the loco if it is in the Wi-Fi Pro Cab's recall stack. This also happens when the second Wi-Fi Pro Cab is turned off.	1.0.12	When driving a loco with a tethered Pro Cab, either leave the Wi-Fi Pro Cab turned on or remove the loco from the recall stack of the Wi-Fi Pro Cab.		For the recall stack to operate correctly in the WNI-32 and avoid Issue number 1, connections need to be maintained continuously. Due to the behaviour of WFD-30 and 31, locos are reset when a connection is first established and when a connection is removed. Thus on power-up and power-down of the WNI-32, locos in the recall stack will stop.
4	When connecting the WNI-32 to a WFD-30, WFD-31 or any other WiThrottle Device, the port of the WiThrottle Server must be set to the default of 12090. Thus the WNI-32 always attempts to connect to port 12090.		Set your WiThrottle Server to Port 12090.		There is a bug in the WNI-32 firmware that does not take account of the mDNS Port that is returned as part of the mDNS data from the WiThrottle Server.