



**ProTune™ Off-Line Tuning
Application**

Rev 1.1

August 28, 2019

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I. Introduction

The ProTune™ Off-Line Tuning Application provides a simple point and click interface manually tune tunable DWDM transceivers.

This guide provides an overview of operating the ProTune™ Off-Line Tuning Application .

Revision History

Version	Description	Dates
1.0	Initial User Manual	July 2019
1.1	Updates to product name	August 28, 2019

1. Release Notes

1.0 – Initial release of tuning software.

1.1 – Updates to product name and to installation.

II. Required Hardware

The ProTune™ Off-Line Tuning Application requires the ProTune™ Tuning Appliance.

1. *ProTune™ Tuning Appliance*

PL-PROTUNE-KIT

- Soft-side carry case
- ProTune™ Tuning and Coding Appliance
- USB 2.0 to Micro USB Cable



PL-PROTUNE-KIT-PELI

- Rugged hard-side carry case
- ProTune™ Tuning and Coding Appliance
- USB 2.0 to Micro USB Cable



III. System Requirements

1. Hardware

- a. The ProTune™ appliance requires a PC with a USB 2.0 (minimum) port. The USB 2.0 port must be set to “High Power Device,” type allowing 2.5W power output. (Default on most PCs) An external power supply is not required.

2. Software

- a. The ProTune™ Off-Line Tuning Application requires Microsoft Windows 7 or later. Mac support is only available via a virtualized instance of Windows on Parallels or VMWare. Linux or other operating systems are not supported by ProTune™. Google Chrome, Mozilla Firefox, or Internet Explorer are required for software installation.

3. Drivers

Microsoft Windows 8 & 10 - Drivers will be automatically installed by Windows Update when you connect the appliance. (Internet connection required.) For the manual installation of drivers, please download the drivers by following this link: http://www.ftdichip.com/Drivers/CDM/CDM21226_Setup.zip

IV. System Setup and Installation

Download the .zip file that includes both the application and .dll file from www.prolabs.com.

Save the folder “ProTune Off-Line Tuning Application” locally to your laptop or PC.

No additional installation steps are required.

Connect the ProTune™ appliance to your PC and then launch the ProTune™ Off-Line Tuning Application software by double clicking on the executable in the folder. Without a transceiver inserted into the appliance, the ProTune™ Off-Line Tuning Application software interface will not be populated. (Figure 1)

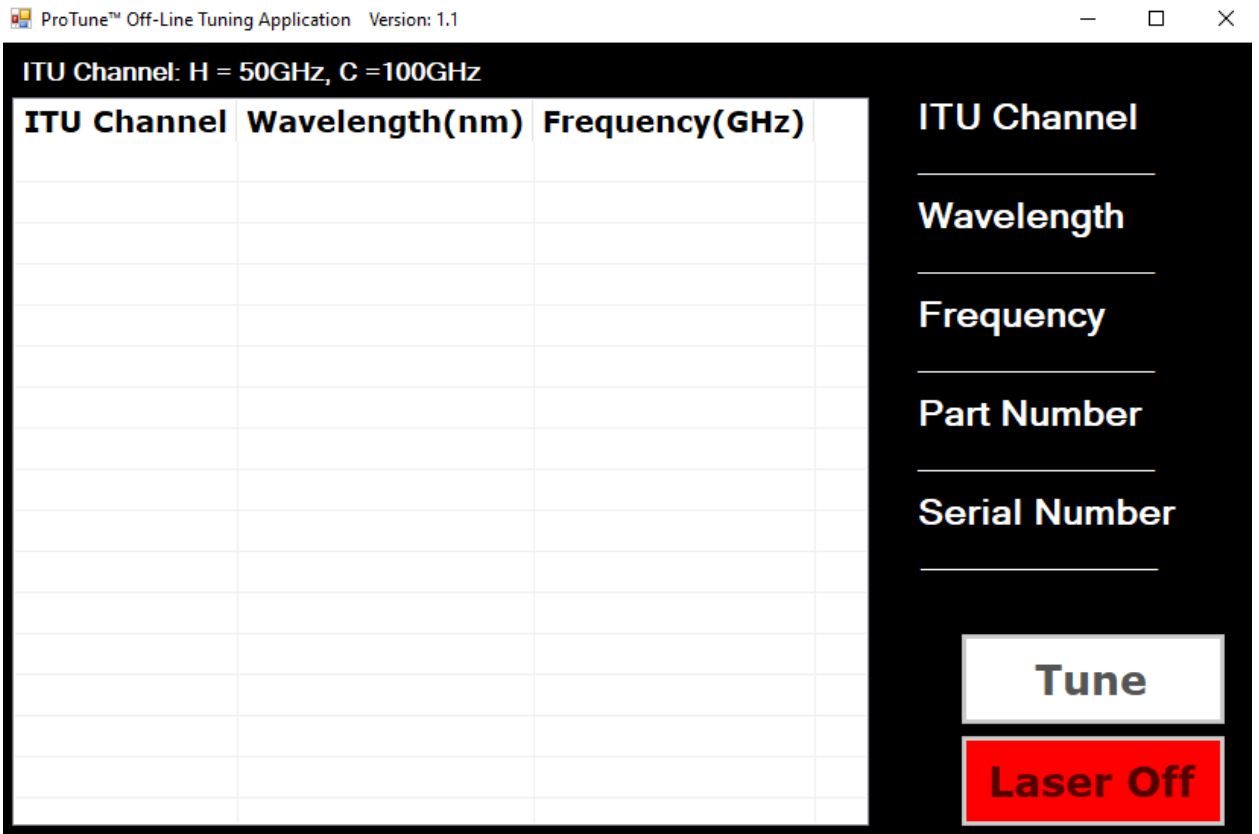


Figure 1 – Application Interface

v. ProTune™ Appliance Interfaces

- 1) The ProTune™ appliance accepts SFP, SFP+, XFP, QSFP+ and QSFP28 transceivers. A three clearly marked slots on the front of the appliance each have a small LED that will illuminate when a transceiver is seated properly. (Figure 2) Only SFP+ and XFP tunable transceivers support tunable DWDM functionality.



Figure 2 – ProTune™ appliance

- 2) Upon inserting a tunable transceiver into the appliance, the application interface will display the DWDM wavelength options offered by the transceiver.

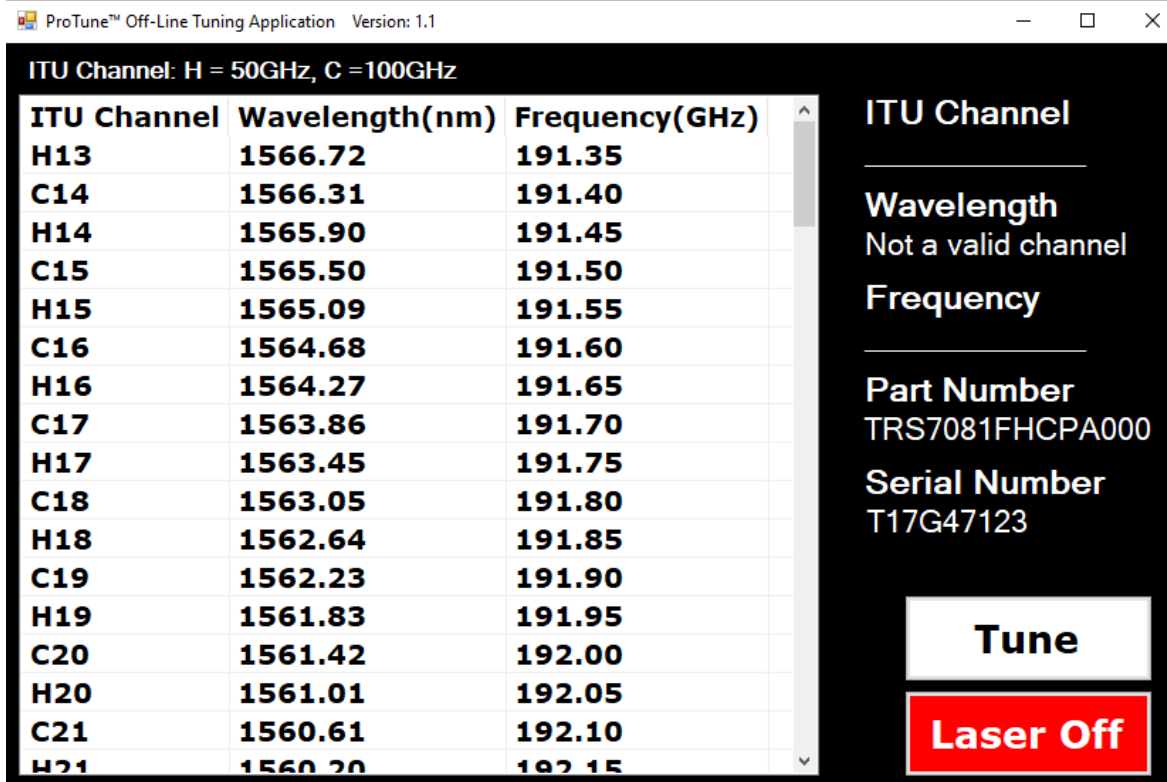


Figure 3 – ProTune™ Off-Line Tuning Application interface

- 3) ProTune™ Off-Line Tuning Application will indicate both the 50GHz and 100GHz wavelength options available for the inserted transceiver.

VI. Tuning Operations

1. Tuning a Transceiver

- 1) Once the ProTune™ Off-Line Tuning Application has been successfully launched, insert the desired SFP+ or XFP transceiver into the appropriate port labeled on the ProTune™ appliance.
- 2) Scroll to the desired wavelength

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ITU Channel: H = 50GHz, C = 100GHz

ITU Channel	Wavelength(nm)	Frequency(GHz)
H13	1566.72	191.35
C14	1566.31	191.40
H14	1565.90	191.45
C15	1565.50	191.50
H15	1565.09	191.55
C16	1564.68	191.60
H16	1564.27	191.65
C17	1563.86	191.70
H17	1563.45	191.75
C18	1563.05	191.80
H18	1562.64	191.85
C19	1562.23	191.90
H19	1561.83	191.95
C20	1561.42	192.00
H20	1561.01	192.05
C21	1560.61	192.10
H21	1560.20	192.15

ITU Channel
C18

Wavelength
1563.05

Frequency
191.80

Part Number
TRS7081FHCPA000

Serial Number
T17G47123

Tune

Laser Off

Figure 3 – Example selection of wavelength options

- 3) Choose the wavelength and click on the “Tune” button. The Transceiver is now tuned to the desired wavelength.

VII. ProTune Off-Line Tuning Application Support

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Web: <https://www.prolabs.com/support/tech-support>