

OpTest Software Manual

Introduction

OpTest allows easy downloading, displaying and reporting of optical power measurements using ODM's RP-460 and UPM-100 power meters.

ODM OpTest Operating System Compatibility

- Windows XP SP3
- Windows Vista
- Windows 7
- Windows 8

Installation Instructions

RP-460 and UPM-100 Windows Driver

To allow the Windows[®] operating system to install the USB port drivers, insert the RP-460 USB cable or UPM-100 into a USB port of the PC. Observe the installation progress provided by Windows; the installation may take a few minutes.

OpTest Software Installation

CD Installation

- 1. Insert the ODM OpTest CD into a PC running Windows XP SP3, Windows Vista, Windows 7 or Windows 8.
- 2. If the setup program does not start automatically, open folder ODM\OpTest on the CD containing setup.exe.
- 3. Double-click setup.exe and follow the software installation instructions below.

Web Installation

- 1. Go to http://odm-inc.com/Downloads.html
- 2. Click the button for ODM Complete Software Package.
- 3. After the download completes, click on UnZip.
- 4. After the ODM Installer opens, click on Install OpTest.
- 5. Click on Install. See Figure 1 below.



Figure 1: ODM OpTest Installation.

OpTest Tablet Support

OpTest is designed to be touch-friendly; it supports screen rotation to make it more convenient when used with tablets. Figure 2 illustrates the main screen in the landscape mode; Figure 3 illustrates the main screen in the portrait mode.

In this manual, all subsequent figures will be illustrated in the landscape mode but the operation of OpTest will be the same as in the portrait mode. Only the button sizes and locations are changed to accommodate the different orientation.

ee ормортеяt File Settings About		
RP-460 No Cable Selected Cable Colors		
0.00 dB A 1310 nm X 850 nm • dB/dBm dB • Save Populate Clear	ODM	OpTest
Cable Date Measurement Pase/Exil	Test Site	Customer
Cable Date Measurement Pass/Pail	Date-Time	Company Name
	February 10, 2014 07:42 Update	Company, Inc
	Location	Contact Name
	Laconia • Add	John Doe 🗸 Add
	Cable ID Cable Leasth	User
	Cable Number 40	Company Name
		ODM, Inc. Add
	Fibers From Fiber From	User Name
	, Fibers To	Joe Doe
	Fiber To	Test Equipment ID
	Comment	
	Comment	000000 -
		Exit
USB Serial port is setup on COM4		

Figure 2: ODM OpTest Landscape Mode

ee ODM OpTest	
<u>Eile Settings About</u>	
	Test
RP-460 No Cable Selected Cable Colors	Test Site
0.00 dB (1210 pm	Date-Time
0.00 dB X 1310 mm	February 10, 2014 07:45
λ 850 nm → dB/dBm dB → Save Populate Clear	Location
Cable Date Measurement Pass/Fail	Laconia • Add
	Cable ID Cable Length
	Cable Number 40
	Fibers From
	Fiber From
	Fibers To
	Fiber To
	Comment
	Comment
	Customer
	Company Name
	Company, Inc - Add
	Contact Name John Doe
	User
	Company Name Add
	User Name
	Joe Doe - Add
	Test Equipment ID
Exit	000000 -
USB Serial port is setup on COM4	
, ·····	

Figure 3: ODM OpTest Portrait Mode

Test Equipment

RP-460 Optical Power Meter (OPM)

The RP-460 optical power meter permits the technician to take loss measurements on a fiber circuit. Using the supplied USB cable plug the RP-460 into a USB port on the PC. Apply power to the device. See the RP-460 User Guide for proper operation of the RP-460.

UPM-100 Optical Power Meter (OPM)

The UPM-100 optical power meter permits the technician to take loss measurements on a fiber circuit. Plug the UPM-100 directly into your PC's USB port. The device powers up immediately. See the UPM-100 User Guide for proper operation of the UPM-100.

OpTest Overview

When a RP-460 or UPM-100 is connected to a PC's USB port, OpTest acquires optical power measurements from the power meter and displays the measurement. The technician can save readings based on carrier or build-specific guidelines. The results can be displayed in red or green to help testers easily identify acceptable and unacceptable dB loss measurements. OpTest also provides site-based reports.

In addition to live measurements, OpTest also accepts measurements that have been acquired and stored in the RP-460 memory. Stored test measurements can be dumped into OpTest and then site-based reports can be created.

Modes of Operation

OpTest supports two modes of operation, Active and Dump.

Active Mode

When in the active mode, OpTest displays the real-time measurement of the RP-460 or UPM-100. The active mode also permits the technician to select pre-configured cable colors to make measurements and reports easy. See Section <u>Active Mode Operation</u>

CDM OpTest	the second second	
<u>F</u> ile Settings <u>A</u> bout		
RP-460 ATI LTE 18 Cable Colors		
0.03 dB / 1310 nm	ODM	OpTest
λ 850 nm → dB/dBm dB → Save Populate Clear		
Cable Date Measurement Pass/Fail	Test Site	Customer
	Date-Time	Company Name
	February 10, 2014 07:54 Update	Company, Inc - Add
	Location	Contact Name
	Laconia • Add	John Doe • Add
	Cable ID Cable Length	User
	Cable Number 40	Company Name
	Eihau Easa	ODM, Inc. Add
	Fiber From	User Name
	Fibers To	Joe Doe Add
	Fiber To	Test Equipment ID
	Comment	
	Comment	000000 -
		J []
		Exit
USB Serial port is setup on COM4		.:

Figure 4: OpTest Active Mode Screen

Dump Mode

When in the dump mode, all the measurements saved in the RP-460's memory are dumped into OpTest when the technician presses the USB button on the RP-460. See Section <u>Dump Mode Operation</u>

CDM OpTest		
<u>F</u> ile Settings <u>A</u> bout		
OPM Unformatted Data	ODM	OpTest
	Test Site	Customer
	Date-Time	Company Name
	Location	Company, Inc Add Contact Name
	Laconia • Add	John Doe - Add
	Cable ID Cable Length Cable Number 40	User Company Name
	Fibers From	ODM, Inc. Add
	Fibers To	Joe Doe • Add
	Fiber To Comment	Test Equipment ID
	Comment	000000 🗸
	Clear Test Data	Exit
USB Serial port is setup on COM4. Waiting to receive data. Please press the USB b	utton on RP-460	

Figure 5: OpTest Dump Mode Screen

CDM OpTest	
File Settings About Probe No OPM & 850 nm	Test Site Date-Time February Text Update Laconia Cable ID Cable Length 40 Cable ID Cable Length 40 Discrime Gable Number 40 Siber From Fibers From Fibers To Fibers To Fiber To Comment 00000
Status Bar Waiting for an ODM USB device to be plugged in and turned on	Exit



Microsoft Excel Software

When OpTest is used with an ODM RP-460 or UPM-100, test measurements can be exported and saved in Microsoft Excel 2007 (Version 12) or newer format, if loaded on your PC. If you do not have Excel and you need to save reports in Excel format, OpTest has an integrated report viewer that allows you to export test data in Excel format for archiving.

ODM OpTest Operating Instructions

Main Window Functions

To run ODM OpTest, click on the desktop shortcut



The status bar, at the bottom of Figure 6, indicates OpTest is waiting for the user to plug an ODM power meter into a USB port. When the power meter is plugged in and powered, OpTest will recognize it and will update the status bar as illustrated in Figure 7.

Information on the main screen can be changed. Text boxes labeled *Cable ID*, *Cable Length*, *Fibers From*, *Fibers To*, *Comment* and user *Company Name* can be updated to reflect your test location and company.

Drop-down boxes contain information that is likely to be repeated. Items can be added to the lists by clicking the *Add* button next to the item. These are labeled *Location*, customer *Company Name*, customer *Contact Name*, *User Name* and *Test Equipment ID*. To delete an item from a list, select the item and simultaneously press the "ALT" key and the "D" key on the keyboard.

The date and time can be updated by clicking the *Update* button next to the Date-Time text box.

CDM OpTest		
<u>F</u> ile Settings <u>A</u> bout		
OPM Unformatted Data		
		\circ \pm (
1		Oplest
		<u> </u>
	Test Site	Customer
	Date-Time	Company Name
	February 10, 2014 07:54 Update	Company, Inc - Add
		Contact Name
	Add	Add
	Cable ID Cable Length	User
	Cable Number 40	Company Name
	Fibers From	JODM, Inc.
	Fiber From	User Name Joe Doe - Add
	Fibers To	
	Fiber To	Test Equipment ID
	Comment	000000
	Clear Test Data	Exat
USB Serial port is setup on COM4. Waiting to receive data. Please press the USB	button on RP-460	······

Dump Mode Operation

Figure 7: Waiting for user to Press USB Key on OPM

To upload, or dump, saved test data to OpTest, press the USB button on the RP-460 OPM as illustrated in Figure 8 below. Figure 9 shows Unformatted Data received from the OPM.





CDM OpTest		
<u>F</u> ile Settings <u>A</u> bout		
Eile Settings About OPM Urformatted Data WU1310.DB 4.70 4.70 4.71 4.71 4.69 4.69 4.69 4.69 4.69 4.70 4.70 4.71 4.71 4.71 4.71 4.71 4.71 4.71 4.71	Test Site Date-Time February 10, 2014 07:54 Location Laconia Laconia Cable ID Cable Number 40 Fibers From Fibers To Fibers To Comment	Customer Company Name Company, Inc Contact Name John Doe Add User Company Name ODM, Inc. User Name Joe Doe Add Test Equipment ID 000000
	Clear Test Data	Exit
USB Serial port is setup on COM4. Waiting to receive data. Please press the USB b	utton on RP-460	

Figure 9: Data received from an OPM.

Active Mode Operation

ile Settin	as About			
		alara		
KP-460 AT		/010FS	-	
0.	.04 dB ƙ	1310 nm	ODM [*]	OpTest
X 850 nm 👻 🤇	dB/dBm dB →	Save Populate C	ar	••••••
Cable	Date	Measurement Pass	Test Site	Customer
1-AB	Duto		Dete Time	Company News
2-AB			Echnicary 10 2014 07:54	
3-AB			Updale	Company, Inc Add
4-AB			Location	Contact Name
5-AB			Laconia - Add	John Doe 🗾 Add
6-AB				
7-AB			Cable ID Cable Length	User
8-AB			Cable Number 40	Company Nama
9-AB				ODM Inc. Add
10-AB			Fibers From	
11-AB			Fiber From	User Name
12-AB				Joe Doe 🗸 Add
13-AB			Fibers To	
14-AB			Fiber To	Test Equipment ID
15-AB			Comment	root Equipmont ib
16-AB			Comment	000000
17-AB				
18-AB				
1-AB T/S				
5-AB T/S				
9-AB T/S				<u>E</u> xit

Figure 10: Active Mode.

- **Populate Button:** Populates the test results table with the cable color codes selected in the Settings/Report Settings on the menu bar. See Figure 10.
- **Save Button:** Saves the measurement displayed to the next location in the test results table.
- Clear Button: Clears all test measurements from the test results table.

💇 ODM	OpTest				the later of the l			
<u>F</u> ile	Settin	gs <u>A</u> bout						
-RP-4	160 ATT	LITE 18 Cable Co	olors					
	100 MI		01013					
	0	02 dB 6	1310 nn	h			~ - /	
						/VI ∻ ()nlest	
λ 85	50 nm 🚽 d	iB/dBm dB 🚽	Save Populate	Clear		• • • •	001001	
Cable	e	Date	Measurement	Pass/Fail	Test Site		Customer	
	1-AB	2/10/2014 1:02 PM	0.02 dB ʎ 1310 nm	N/A	Date-Time		Company Name	
	2-AB				February 10, 2014 07:54	Update	Company. Inc	Add
	3-AB						0.1.11	
	4-AB				Location		Contact Name	
	5-AB				Laconia	▼ Add	John Doe	▼ Add
	6-AB							
	7-AB				Cable ID Cable L	Length	User	
	8-AB				Cable Number 40		Company Name	
	9-AB						ODM, Inc.	Add
	10-AB				Fibers From	1	Lines Neme	
	12-AR				Fiber From		User Name	
	13-AB				Fibers To		306 006	Add
	14-AB				Fiber To			
	15-AB				Comment		Test Equipment ID	
	16-AB				Comment			
	17-AB				Comment		000000	•
	18-AB							
1	I-AB T/S							
5	5-AB T/S							
9	-AB T/S							Exit
USB Seria	al port is setu	p on COM4						.::

Figure 11: Active Mode - Save Measurement

Menu Bar Items

File

- Clear Test Data: Clears the contents of the data window.
- **Print:** Prints the contents of the Unformatted Data window.
- View Report: Displays a report of the test data in the Unformatted Data window.
- **Export to Excel:** Exports the contents of the data window to Microsoft Excel by opening Excel and populating a sheet.
- **Exit:** Exit the program

Settings

- Settings: Opens the Settings window to permit changing the pass/fail values and to enable or disable cable colors in the reports.
 - **Report Settings:** Permits selection of custom cable color code and pass/fail settings.
 - **Data Mode:** Permits the selection of either Active or Dump method of measurement acquisition.

About

- **ODM OpTest Manual:** Displays the OpTest Manual.
- About OpTest: Displays information about OpTest.

CDM OpTest	the loss that	- - X
<u>File</u> Settings <u>A</u> bout		
Clear Test Data		
Print		
View Report	()))N/ <	OnTest
Export to Excel	CDIII	oprost
Exit	Test Site	Customer
4.71 4.71		
4.72 4.71 4.72	February 10.2014 07:54	Company Inc
4.71 4.70		Contact Name
4.71 4.71	Laconia - Add	John Doe - Add
4.71 4.73		
4.72 4.72	Cable ID Cable Length	User
4.71 4.70	Cable Number 40	Company Name Add
4./1 4.71 4.71	Fibers From	
4.71 4.71	Fiber From	User Name
4.71 4.72	Fibers To	, ad
4./1 WL1310,DBM -42.39	Fiber To	Test Equipment ID
1.00	Comment	
	Comment	••••••
	Clear Test Data	Exit
USB Serial port is setup on COM4. Waiting to receive data. Please press the USB b	putton on RP-460	

Figure 12: File Menu

CODM (OpTest	of the local division of the	States States of the	and the state of the		-			_ _ ×
File	Settings	About							
-OPM U	Repor	t Settings							
	Data N	∕lode →	Dump Mode						
			Active Mode		I) N	Λ 🖌 (OnTact		
		L					Jhiesi		
				7					
				Test Site			Customer		
				Date-Time			Company Name		
				February 10, 2014 01:28		Update	Company, Inc	-	Add
				Location			Contact Name		
				Laconia	-	Add	John Doe	-	Add
				Cable ID			User		
				Cable Number	40	n	Compony Namo		
				1	1		ODM, Inc.	_	Add
				Fibers From			, Lines Name		
				Fiber From			Joe Doe	•	Add
				Fibers To				l	
				Fiber To			Test Equipment ID		
				Comment					
				Comment			000000	-	
				Clear Test Data					Evit
				Clear rest Data					EXIL
USB Serial	port is setup on (COM4. Waiting to receive	e data. Please press the USB bu	tton on RP-460					

Figure 13: Settings Menu

Report Settings							
Power Meter Pass/Fail Settings							
Minimum	Maximum						
850 λ 0.0	3.0	Enable	⊘ dB	🗖 dBm			
1310λ 0.0	3.0	Enable	⊘ dB	🗖 dBm			
1490 λ 0.0	3.0	Enable	⊘ dB	🔲 dBm			
1550 λ 0.0	3.0	Enable	<mark> </mark>	🗖 dBm			
		Enable R	eal Time P	ass/Fail			
Cable Color or Custom C	onfiguration for	Reports					
None							
O AT&T LTE 12 Pair							
AT&T LTE 18 Pair							
Clearwire (Samsun)	g nRRHv2)/Mo	to					
Sprint-Alcatel Luce	nt						
Sprint/Ericsson							
Sprint/Samsung							
T-Mobile							
		<u>O</u> K		<u>C</u> ancel			

Figure 14: Settings Window

The Settings menu section permits you set pass-fail limits and enable or disable those limits. You can also set custom hybrid cable color codes (Sprint Network Vision/Samsung). If enabled, cable colors are printed in the Comment column of the reports. See Figure 16.

Reports

Reports can be created using Excel. If you don't have Excel, you can use the Report Viewer feature.

Excel

To export test data to Microsoft Excel, click File/Export to Excel. Excel will open with the test data displayed.



Figure 15: Excel Report

In Figure 15, the test data that was in the Unformatted Data window has been exported to Excel. Comments can be added to the Comment column to further note parameters of each test if needed.

If desired, you can print and save the Excel data. To save, choose File/Save As on the Excel menu, then change the name of the file and assign file extension from '.xls'.

	👔 🤪 • 🖓 • 🖓 • 🕞 🚽 ODM_OPM_Excel_Template-R3.xlt [Read-Only] [Compatibility Mode] - Microsoft Excel												
F	ile	Home Insert Pag	je Layout 🛛 F	ormulas	Data	Review	View	Add-Ins	Tear	n 🛛 🍞	- 6	23	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $										K	× [] 4		
3 4 5	Coptical Design Manufacturing Inc.												
6	Custo	mer Name	Contact Name			Testing Company			Tester's Name				
8	Compa	ny, Inc		John Doe			ODM, I	nc.		Joe Doe	Joe Doe		
9	Test L	ocation					Date/	Time					
10	Laconia	3					Tuesday June 26, 2012 02:05:31						
11	Cable	ID	Cable Length			Fibers From			Fibers To				
12	Cable I	lumber	40			Fiber From			Fiber To				
13	Comm	ients					Pass/	Fail					
14							850 Min/Max: 0dB /3.0dB Enabled						
15	Comm	ant					1310 N	310 Min/Max: 0dB /3.0dB Enabled					
16	Comm	5111					1490 Min/Max: 0dB /3.0dB Enabled						
17							1550 N	lin/Max: Odl	3/3.0dB	Enabled			
	Test E	quipment Model					Test l	Equipme	nt ID				
18	RP-460	-02					000000					L.	
20	DD 4												
21	RP 4	ou lest Data											
22													
2.5	Loc#	Comment	Pass/Fail	850 nm	Unit	1310 nm	Unit	1490 nn	n Unit	1550 nm	Unit		
24	1	S1/Red/Blue	PASS							1.99	dB	4	
26	2	S1/Red/Orange	PASS							2.03	dB	t	
27	3	S1/Red/Green	PASS							2.12	dB		
28	4	S1/Red/Brown	PASS							2.06	dB	Ŧ	
14	F €	Sheet1	PASS							217	►	í)	
Rea	dy								77% 🤆				

Figure 16: Excel Report with Cable Colors Enabled in Settings Window

|--|

OPM Test Report

Customer Name	Contact Name	Testing Company	Tester's Name				
Company, Inc	John Doe	ODM, Inc.	Joe Doe				
Test Location		Date/Time					
Laconia		Thursday June 28, 2012	09:54:42				
Cable ID	Cable Length	Fibers From	Fibers To				
Cable Number	40	Fiber From	Fiber To				
Comments		Pass/Fail					
		850 Min/Max: 0dB /3.0d8	8 Enabled				
Comment		1310 Min/Max: 0dB /3.0d	B Enabled				
Comment		1490 Min/Max: 0dB /3.0d	B Enabled				
		1550 Min/Max: 0dB /3.0d	B Enabled				
Test Equipment Model		Test Equipment ID					
RP-460-02		000000					

RP 460 Test Data

Loc#	Comment	Pass/Fail	850 nm	Unit	1310 nm	Unit	1490 nm	Unit	1550 nm	Unit
1	S1/Red Bundle/Blue	PASS							1.99	dB
2	S1/Red Bundle/Orange	PASS							2.03	dB
3	S1/Red Bundle/Green	PASS							2.12	dB
4	S1/Red Bundle/Brown	PASS							2.06	dB
5	S1/Red Bundle/Slate	PASS							2.17	dB
6	S1/Black Bundle/Blue	PASS							2.26	dB
7	S1/Black Bundle/Orange	PASS							2.29	dB
8	S1/Black Bundle/Green	PASS							2.30	dB
9	S1/Black Bundle/Brown	PASS							2.38	dB
10	S1/Black Bundle/Slate	PASS							1.85	dB
11	S1/Blue Bundle/Blue	PASS							1.53	dB
12	S1/Blue Bundle/Orange	PASS							1.68	dB

Optical Design Manufacturing, Inc. • 803-524-8350 • www.odm-inc.com Date Printed: 6/28/2012 9:57 AM

Figure 17: Excel Printed Report

Report Viewer

Selecting View Report on the File Menu will generate a report using the data in the Unformatted Data window. From the Report Viewer, data can be printed or exported to Excel, PDF or Word.

ODM v1.1.0

1

1 OPM Data Manager Repo	t Viewer	Trt	Find port				
Customer Name	Contact Name	Testing Company	Tester's Name				
Company, Inc	John Doe	ODM, Inc.	Joe Doe				
Test Location		Date/Time					
Laconia		Tuesday June 26, 20	12 03:40:03				
Cable ID	Cable Length	Fibers From	Fibers To				
Cable Number	40	Fiber From	Fiber To				
Comments		Pass/Fail					
Comment		1550 λ Min/Max: 0dE	1550 λ Min/Max: 0dB /3.0dB Enabled				
Test Equipment Mode	4	Test Equipment ID	Test Equipment ID				
RP-460-02		000000	000000				
RP-460 Test Dat	а						
Loc # Comment	Pass/Fail 850nm	Unit 1310nm Unit 1490n	m Unit 1550nm Unit				
1	PASS		1.99 dB				
2	PASS		2.03 dB				

Figure 18: ODM OPM Report Viewer

In the Report Viewer test comments can be added to the report by clicking on the Add Comments button. A comment can be added to each test location to further identify the test data. See Figure 19 below.

	TestEquipmentModel	TestEquipmentID	LocationNumber	TestComment	PassFail Results
Ø	RP-460-02	000000	1	Tower 123	PASS
	RP-460-02	000000	2		PASS
	RP-460-02	000000	3		PASS
	RP-460-02	000000	4		PASS
	RP-460-02	000000	5		PASS
	RP-460-02	000000	6		PASS
	RP-460-02	000000	7		PASS
	RP-460-02	000000	8		PASS
	RP-460-02	000000	9		PASS
	RP-460-02	000000	10		PASS
	RP-460-02	000000	11		PASS
	RP-460-02	000000	12		PASS

Figure 19: ODM OPM Report Viewer Add Comments

Company, Inc John Doe Test Location	ODM, Inc. Date/Time		loe Doe					
Test Location	Date/Time		ODM, Inc. Joe Doe					
Laconia								
	Thursday J	lune 28, 2012	09:51:30					
Cable ID Cable Length	Fibers From	n	Fibers To					
Cable Number 40	Fiber From	1	Fiber To					
Comments	Pass/Fail							
Comment	1550 λ Min	/Max: 0dB /3.0)dB Enabled					
Test Equipment Model	Test Equipr	ment ID						
RP-460 Test Data								
.oc# Comment Pass/Fall 850nm	Unit 1310nm U	Jnit 1490nm l	Jnit 1550nm	Unit				
1 S1/Red Bundle/Blue PASS			1.99	đB				
2 S1/Red Bundle/Orange PASS			2.03	đB				
3 S1/Red Bundle/Green PASS			2.12	đB				
4 S1/Red Bundle/Brown PASS			2.06	dB				
5 S1/Red Bundle/Slate PASS			2.17	08				
7 S1/Black Bundle/Orange DASS			2.20	48				
8 S1/Black Bundle/Green PASS			2.30	dB				
9 S1/Black Bundle/Brown PASS			2.38	đB				
10 S1/Black Bundle/Slate PASS			1.85	dB				
11 S1/Blue Bundle/Blue PASS			1.53	đB				
12 S1/Blue Bundle/Orange PASS			1.68	dB				

Figure 20: Report Viewer Printed Report

Windows USB Port Drivers for the ODM RP-460

When the ODM RP-460 is plugged into the PC's USB port for the first time, Windows should locate the correct drivers. If Windows cannot find the correct USB port drivers, you can run the setup program located in folder FTDICHIP on the CD that shipped with your RP-460. If you don't have a CD you can download the driver setup program from http://www.ftdichip.com/Drivers/VCP.htm. See Figure 21 below.

Currently Supported VCP Drivers:											
			Р	rocesso	or Archite	cture					
Operating System	Release Date	x86 (32-bit)	x64 (64-bit)	PPC	ARM	MIPSI	MIPSIV	SH4	Comments		
Windows 8.1	2013-10-21	<u>2.08.30</u> 8.1	<u>2.08.30</u> 8.1	-	-	-	-	-	2.08.30 WHQL Certified for Win 8.1 Available as setup executable <u>Release Notes</u>		
Windows*	2013-08-01	<u>2.08.30</u>	<u>2.08.30</u>	-	-	-	-	-	2.08.30 WHQL Certified Available as setup executable <u>Release Notes</u>		
Linux	2009-05-14	1.5.0	1.5.0	-	-	-	-	-	All FTDI devices now supported in Ubuntu 11.10, kernel 3.0.0-19 Refer to TN-101 if you need a custom VCP VID/PID in Linux		
Mac OS X	2012-08-10	<u>2.2.18</u>	<u>2.2.18</u>	<u>2.2.18</u>	-	-	-	-	Refer to $\underline{\text{TN-105}}$ if you need a custom VCP VID/PID in MAC OS		
Windows CE 4.2-5.2**	2012-01-06	1.1.0.10	-	-	1.1.0.14	1.1.0.10	1.1.0.10	1.1.0.10			
Windows CE 6.0	2012-01-06	1.1.0.10	-	-	1.1.0.14	1.1.0.10	1.1.0.10	1.1.0.10			

Figure 21: RP-460 FTDI Chip Driver Download

ODM Contact Information

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Voice: 603.524.8350 Fax: 603.524-8332 Email: <u>tech.support@odm-inc.com</u> Website: <u>http://www.odm-inc.com</u>