



Mapping & GIS

PRODUCT COMPATIBILITY MATRIX

This document outlines the compatibility between Trimble® Mapping & GIS field devices, Trimble field software versions, Trimble office software versions, and Microsoft® operating systems.

- ▶ GPS Pathfinder Office software
- ▶ TerraSync software
- ▶ Trimble Positions software suite
- ▶ Trimble TerraFlex platform
- ▶ GPS Pathfinder Field toolkit
- ▶ GPS Controller software
- ▶ GNSS Status utility
- ▶ Trimble GNSS receiver-antenna compatibility
- ▶ Receiver constellation, frequency, and real-time protocols
- ▶ Legal notices

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GPS Pathfinder Office software

When Trimble releases new field devices and versions of field software, it often releases a new version of GPS Pathfinder® Office software to support the new features introduced into the field devices and field software. To ensure compatibility between your field device, field software, and the GPS Pathfinder Office software, it is important that you have the correct version of each.

GPS Pathfinder Office software: Microsoft operating systems

If not otherwise noted, the following Service Packs are required for compatibility, as noted in the table below:

- ▶ Windows 7 | Service Pack 1
- ▶ Windows 8, 8.1

When Microsoft releases a new operating system, the latest version of the GPS Pathfinder Office software may not run correctly on that operating system.

Note – The Windows 7 operating system, 32-bit and 64-bit are both supported.

Table 1 GPS Pathfinder Office software: Windows operating systems

Windows operating system	GPS Pathfinder Office software version			
	5.40	5.60	5.65	5.70 - 5.90
Windows 7	•	•	•	•
Windows 8, 8.1	—	•	•	•
Windows 10	—	—	—	•

GPS Pathfinder Office License Manager

Note – Ensure that the accompanying version of the License Manager is used when upgrading GPS Pathfinder Office software versions to avoid compatibility issues. The latest version of the License Manager will be compatible with prior versions of GPS Pathfinder Office software, but it may not support later versions.

Table 2 GPS Pathfinder Office License Manager: Windows operating systems

Windows operating system	GPS Pathfinder Office License Manager version		
	2.30	2.40	2.50
Windows Server 2008	•	•	•
Windows Server 2012	—	•	•
Windows Server 2016	—	—	•

Data Transfer utility

The Trimble Data Transfer utility transfers data from a range of field devices to your office computer. You can then import the data into the GPS Pathfinder Office software.

The Data Transfer utility is available free from the Trimble website: www.trimble.com/datatransfer/.

Note – Although you can use the Data Transfer utility to download data from any Mapping & GIS field device irrespective of the version of the GPS Pathfinder Office software you have, the files from your field device may not be compatible with your version of the GPS Pathfinder Office software because of the functionality in that field device. Check [GPS Pathfinder Office software](#) for compatibility information.

Windows Mobile Device Center for the Windows 7 and 8 operating systems

Windows Mobile Device Center is only compatible with devices powered by Windows Mobile 2003 software for Pocket PCs and later versions. You can download the current version of the Windows Mobile Device Center, free of charge, from the Microsoft website.

GPS Pathfinder Office software: field device and field software

Table 3 GPS Pathfinder Office software: field device and field software

Trimble field device, and field software	Version	GPS Pathfinder Office software version			
		5.40	5.60, 5.65	5.70	5.80 - 5.90
GPS Pathfinder Field toolkit	1.20 - 1.21	•	•	•	•
	1.22	•	•	•	•
	1.30	•	•	•	•
	1.40, 1.41, 1.50, 1.60, 1.70	—	•	•	•
GPS Pathfinder Community Base Station	2.68	•	•	•	•
TerraSync™ software	5.40 - 5.42	• ¹	•	•	•
	5.60, 5.61, 5.65	—	•	•	•
	5.70, 5.71	—	—	•	•
	5.80 - 5.90	—	—	—	•
Trimble Positions™ ArcPad extension	10.0.1	• ²	•	•	•
	10.0.0.2	• ²	•	•	•
	10.2.0.1, 10.2.1.1	—	•	•	•
	10.2.3.1, 10.2.4.1, 10.2.5.1	—	—	—	•

¹The GPS Pathfinder Office version 5.40 software requires the latest update to support TerraSync software version 5.42.

²The GPS Pathfinder Office version 5.40 software requires the latest update to support the Trimble Positions ArcPad extension versions 10.0.1 and 10.0.0.2.

TerraSync software

Table 4 TerraSync software: Trimble field computers' operating systems — desktop and tablet computers

		TerraSync software version						
		5.42 ¹	5.60	5.61	5.65 ²	5.70	5.80 - 5.86	5.90
Desktop computers	Windows 7 ³	•	•	•	—	•	•	•
	Windows 8, 8.1	—	•	•	—	•	•	•
	Windows 10	—	—	—	—	•	•	•
Yuma tablet	Windows 7 Professional ⁴	•	•	•	—	•	•	•
Yuma 2 tablet	Windows 7 Professional ⁴	•	•	• ⁵	—	•	•	•
T10 tablet	Windows 10	—	—	—	—	—	—	• ⁶

¹TerraSync version 5.42 is a Desktop-only version.

²TerraSync versions 5.65 is supported only on Windows Mobile and Windows Embedded Handheld devices.

³The Windows 7 operating system, 32-bit and 64-bit are both supported.

⁴The Windows 7 Professional operating system, 32-bit version, is the only version supported by the Trimble Yuma and Yuma 2 rugged tablet computers.

⁵TerraSync versions 5.61 and later include support for the Enhanced GPS variants of the Yuma 2 tablet.

⁶External Trimble receivers are supported. The internal GNSS receiver is not supported.

Table 5 TerraSync software: Trimble field computers' operating systems — Recon, Nomad

Field computer	Operating system	Internal GNSS Firmware Version or ID number	TerraSync software version				
			5.60	5.61, 5.65	5.70	5.71	5.80 - 5.90
Trimble Recon ¹	Windows Mobile 6	—	•	•	•	•	•
Nomad [®] series	Windows Mobile 6	All	•	•	•	•	•
Nomad 800G series	Windows Mobile 6	#9802# ²	•	•	•	•	•
Nomad 900G series	Windows Mobile 6.1	#9803# ²	•	•	•	•	•
Nomad 1050 series	Windows Embedded Handheld Professional 6.5	GSD4e_4.1.2-P1	—	—	—	—	•

¹The TerraSync software is not supported on a Trimble Recon handheld connected to a GPS Pathfinder ProXRT receiver.

²The internal GNSS receiver ID can be determined by using the SatViewer utility to connect to the GNSS receiver, then selecting the About tab. The receiver ID is the final part of the SiRF III Firmware string.

Table 6 TerraSync software: Trimble field computers' operating systems — Juno series

Field computer	Operating system	Internal GNSS Firmware Version or ID number	TerraSync software version			
			5.60	5.61, 5.65	5.70, 5.71	5.80 - 5.90
Juno S series (SA, SB, SC, SD)	Windows Mobile 6.1	3.2.5.0.3	•	•	•	•
Juno 3 series (3B and 3D)	Windows Embedded Handheld Professional 6.5	3.2.5.1.0	•	•	•	•
Juno 5 series (5B and 5D)		7.03	•	• ¹	•1	•1
Juno T41™ handheld		7.03	—	•1	•1	•1

¹TerraSync versions 5.61 and later include support for the Enhanced GPS variants of the Juno 5 series and Juno T41 handheld.

Table 7 TerraSync software: Trimble field computers' operating systems — GeoExplorer series

Field computer	Operating system	Internal GNSS Firmware Version or ID number	TerraSync software version			
			5.60	5.61, 5.65	5.70, 5.71	5.80 - 5.9
GeoExplorer 2008 and 3000 series	Windows Mobile 6	2.11 or later	•	•	•	•
	Windows Mobile 6.1	2.11 or later	•	•	•	•
GeoExplorer 6000 series	Windows Mobile 6.5	3.06.1 or earlier	•1	•1	•1	•1
		4.01.1 or later	•1	•1	•1	•1
Geo 5T	Windows Embedded Handheld 6.5 Professional	1.00.3 (Hm25.1.05)	•	•	•	•
Geo 7X	Windows Embedded Handheld 6.5 Professional	4.00.10	•2	•2	•2	•2
		4.10.2	•	•3	•3	•3

¹The Geo XH Centimeter edition handheld is only supported by the TerraSync Centimeter edition software.

²The Geo 7X Centimeter edition handheld is only supported by the TerraSync Centimeter edition software.

³The Geo 7X firmware version 4.10.2 adds support for Trimble RTX™ correction services, when used with TerraSync software version 5.65 and later.

Table 8 TerraSync software: receivers

			TerraSync software			
Receiver	Receiver part number	Internal GNSS FW version or ID number	5.42 ¹	5.60, 5.61, 5.65	5.70, 5.71	5.80 - 5.9
ProXT	52240-20	1.80 or later	•	•	•	•
ProXH	52240-00	1.80 or later	•	•	•	•
ProXRT Model 1	85340-00 / 85340-02	4.44	•	•	•	•
ProXRT Model 2	85340-10 / 85340-12	4.44	•	•	•	•
	85340-20 / 85340-22	4.71	•	•	•	•
Pro 6H	99100-01	1.03.1, 1.04.3	—	•	•	•
Pro 6T	99100-20 / 99100-21	1.03.1, 1.04.3	—	•	•	•
R1 GNSS	102020-00, 102020-10	5.03	—	—	•	•
R2 GNSS ^{2, 3}	R2-001-xx	5.15	—	—	—	•

¹TerraSync 5.42 is only available for Windows desktop. TerraSync 5.42 has the same functionality as TerraSync 5.41 when used with external receivers.

²The R2 RTK Rover is only supported by the TerraSync Centimeter edition software.

³Trimble recommends using the R2 GNSS receiver with a Juno 5 series handheld or newer, as older handhelds do not have the capacity to handle the amount of data that the R2 receiver can output.

Table 9 TerraSync software: Land Survey receivers

		TerraSync software version ¹	
Receiver	Receiver Firmware Version	5.60, 5.61, 5.65	5.70, 5.71, 5.80, 5.81, 5.85, 5.9
5800 II	3.64	—	—
	3.82	—	—
	4.12	•	—
	4.43	—	•
R8 GNSS	4.12	•	—
	4.70	—	•
R8 Model 3	4.12	•	—
	4.71	—	•
R6 Model 1 and Model 2	4.12	•	—
	4.64	—	•
R4 ²	4.12	•	—
	4.64	—	•
R4 model 2 or later		—	•
R6 Model 3 or later		—	•
R8 Model 4 or later		—	•
R10		—	•

¹The Land Survey receivers are supported in TerraSync Centimeter Edition software only.

²Requires the R4 Data Controller option (part number 52426-90 / UPG52426-90) to be installed.

Trimble Positions software suite

Trimble Positions Desktop add-in

Table 10 Trimble Positions Desktop add-in: Trimble Mapping & GIS field software

		Trimble Positions Desktop add-in		
		10.2.x, 10.3.x	10.4.x, 10.5.x	10.6.x, 10.7.x, 10.8.0.1
Trimble Positions Mobile extension	10.2.0.2, 10.2.0.3, 10.2.1.1	•	•	•
	10.2.1.2	—	•	•
Applications developed with the Trimble Positions toolkit	10.2.0.2, 10.2.0.3, 10.2.1.1	•	•	•
	10.2.1.2	—	•	•
Trimble Positions ArcPad extension	10.2.1.1, 10.2.2.1	•	•	•
	10.2.3.1, 10.2.4.1	—	•	•
	10.2.5.1	—	—	•

Table 11 Trimble Positions Desktop add-in: TerraFlex offline workflow

	Trimble Positions Desktop add-in	
	10.7.1.1	10.8.0.1
TerraFlex 4.4 - offline workflow	•1	•1
TerraFlex 4.5 - offline workflow	•1	•1
TerraFlex 4.7 - offline workflow	—	•1

¹ Windows and Android operating systems only.

Table 12 Trimble Positions Desktop add-in: Windows operating system

	Trimble Positions Desktop add-in	
	10.2.x, 10.3.x	10.4.x, 10.5.x, 10.6.x, 10.7.x, 10.8.0.1
Windows 7	•	•
Windows 8, 8.1	•	•
Windows 10	—	•

Note – This table does not reflect the compatibility between Esri ArcGIS Desktop software and the Windows operating systems (or any other operating systems supported by Esri).

Table 13 Trimble Positions Desktop add-in: Esri ArcGIS Desktop software

		Trimble Positions Desktop add-in							
		10.2.2.1	10.3.0.1, 10.3.0.2	10.4.0.1	10.5.0.1, 10.5.0.2	10.6.0.1	10.6.1.1	10.7.1.1	10.8.0.1
Esri ArcGIS Desktop ¹	10.1	•	•	•	•	•	•	•	•
	10.2	•	•	•	•	•	•	•	•
	10.2.1, 10.2.2	•	•	•	•	•	•	•	•
	10.3	—	•	•	•	•	•	•	•
	10.3.1	—	—	•	•	•	•	•	•
	10.4	—	—	•	•	•	•	•	•
	10.4.1	—	—	—	•	•	•	•	•
	10.5	—	—	—	•	•	•	•	•
	10.5.1	—	—	—	—	•	•	•	•
	10.6	—	—	—	—	•	•	•	•
	10.6.1	—	—	—	—	—	•	•	•
	10.7	—	—	—	—	—	—	•	•
	10.7.1	—	—	—	—	—	—	•	•
	10.8	—	—	—	—	—	—	—	•

¹See table below.

The TerraFlex Desktop add-in (a specialized version of the Trimble Positions Desktop add-in) is compatible with ArcGIS Desktop 10.1 - 10.6.1.

	Trimble Positions Mobile extension	Trimble Positions ArcPad extension
ArcGIS Desktop - Basic	<ul style="list-style-type: none"> • -Cannot enable or synchronize attachments. -Cannot add GlobalID fields through the User Interface to allow synchronization. -Degraded performance when collecting session data in the field. 	<ul style="list-style-type: none"> • -Limited or no support for enterprise geodatabases and ArcSDE services; refer to Esri documentation.
ArcGIS for Desktop - Standard	•	•
ArcGIS for Desktop - Advanced	•	•

Table 14 Trimble Positions License Manager: Windows operating systems

Ensure that the accompanying version of the License Manager is used when upgrading Trimble Positions software versions to avoid compatibility issues. The latest version of the License Manager will be compatible with prior versions of Trimble Positions software, but it may not support later versions.

Windows operating system	Trimble Positions License Manager version			
	10.3.0.x	10.4.0.x	10.5.0.x	10.6.x, 10.7.x, 10.8.0.1
Windows Server 2008	•	•	•	•
Windows Server 2012	—	•	•	•
Windows Server 2016	—	—	•	•

Trimble Positions Mobile extension

Table 15 Trimble Positions Mobile extension: Windows operating system — field computers

Note – The Trimble Positions Mobile extension requires the Windows Mobile operating system version 6.0 or later.

The Trimble Positions Mobile extension will connect to the internal receivers of the following field computers:

Field computer	Operating system	Internal GNSS Firmware Version or ID number	Trimble Positions Mobile extension		
			10.2.0.2	10.2.0.3, 10.2.1.1	10.2.1.2
Nomad 900G series	Windows Mobile 6.1	#9803# ¹	•	•	•
Nomad 1050 series	Windows Embedded Handheld 6.5 Pro	GSD4e_4.1.2-P1	—	—	•
Juno S series (SA, SB, SC, SD)	Windows Mobile 6.1	3.2.5.0.1 or later	•	•	•
Juno 3 series (3B and 3D)	Windows Embedded Handheld 6.5 Pro	3.2.5.1.0	•	•	•
Juno 5 series (5B and 5D)	Windows Embedded Handheld 6.5 Pro	7.03	•	•	•
Juno T41, Juno T41 Enhanced GPS	Windows Embedded Handheld 6.5 Pro	7.03	•	•	•
GeoExplorer 2008 and 3000 series	Windows Mobile 6	2.11 or later	•	•	•
	Windows Mobile 6.1	2.11 or later	•	•	•
GeoExplorer 6000 series	Windows Mobile 6.5	3.06.1 or earlier	.2	.2	.2
		4.01.1 or later	.2	.2	.2
Geo 5T	Windows Embedded Handheld 6.5 Pro	1.00.3 (Hm25.1.05)	•	•	•
Geo 7X	Windows Embedded Handheld 6.5 Pro	4.00.10	.3	.3	.3
		4.10.2	.3	.4	.4

¹ The internal GNSS receiver ID can be determined by using the SatViewer utility to connect to the GNSS receiver, then selecting the About tab. The receiver ID is the final part of the SiRF III Firmware string.

² Positions Mobile extension does not support the Geo XH Centimeter edition option; disable this option before using the software.

³ Positions Mobile extension does not support the Geo 7X Centimeter edition option; disable this option before using the software.

⁴ The Geo 7X firmware version 4.10.2 adds support for Trimble RTX™ correction services, when used with Trimble Position Mobile extension version 10.2.0.3 and later.

Table 16 Trimble Positions Mobile extension: receivers

Receiver	Receiver part number	Receiver firmware version	Trimble Positions Mobile extension		
			10.2.0.2, 10.2.0.3	10.2.1.1	10.2.1.2
ProXT	52240-20	1.80 or later	•	•	•
ProXH	52240-00	1.80 or later	•	•	•
Pro 6H	99100-01	1.03.1, 1.04.3	•	•	•
Pro 6T	99100-20 / 99100-21	1.03.1, 1.04.3	•	•	•
R1 GNSS	102020-00, 102020-10	5.03	—	•	•
R2 GNSS ^{1,2}	R2-001-xx	5.15	—	—	•

¹ The R2 RTK Rover is not supported by Trimble Positions Mobile extension.

² Trimble recommends using the R2 GNSS receiver with a Juno 5 series handheld or newer, as older handhelds do not have the capacity to handle the amount of data that the R2 receiver can output.

Table 17 Trimble Positions Mobile extension for versions of Esri ArcGIS for Windows Mobile software

		Trimble Positions Mobile extension	
		10.2.0.2, 10.2.0.3	10.2.1.1, 10.2.1.2
Esri ArcGIS for Windows Mobile software	10.2	•	—
	10.2.1	—	•

Trimble Positions ArcPad extension

The following tables list the compatibility between the Trimble Positions ArcPad extension, field computers, and GNSS receivers. The Trimble Positions ArcPad extension requires the Windows Mobile operating system version 6.0 or later.

Table 18 Trimble Positions ArcPad extension: Windows operating system — desktop and tablet computers

		Trimble Positions ArcPad extension		
		10.2.1.1 ¹	10.2.2.1, 10.2.3.1	10.2.5.1
Desktop computers	Windows 7 ²	—	•	•
	Windows 8, 8.1	—	•	•
Yuma tablet	Windows Vista Business	—	•	•
	Windows 7 Professional ³	—	•	•
Yuma 2 tablet	Windows 7 Professional ³	—	•	•
T10 tablet	Windows 10	—	—	•

¹Trimble Positions ArcPad extension version 10.2.1.1 is only supported on Windows Mobile and Windows Embedded Handheld devices.

²The Windows 7 operating system, 32-bit and 64-bit are both supported.

³The Windows 7 Professional operating system, 32-bit version, is the only version supported by the Trimble Yuma and Yuma 2 rugged tablet computers.

Table 19 Trimble Positions ArcPad extension: Windows operating system — field computers

Field computer	Operating system	Internal GNSS Firmware Version or ID number	Trimble Positions ArcPad extension			
			10.2.1.1	10.2.2.1	10.2.3.1	10.2.4.1, 10.2.5.1
Nomad 900G series	Windows Mobile 6.1	#9803# ¹	•	•	•	•
Nomad 1050 series	Windows Embedded Handheld 6.5 Pro	GSD4e_4.1.2-P1	—	—	•	•
Juno S series (SA, SB, SC, SD)	Windows Mobile 6.1	3.2.5.0.3 or later	•	•	•	•
Juno 3 series (3B and 3D)	Windows Embedded Handheld 6.5 Pro	3.2.5.1.0	•	•	•	•
Juno 5 series (5B and 5D)	Windows Embedded Handheld 6.5 Pro	7.03	• ²	•	•	•
GeoExplorer 2008 and 3000 series	Windows Mobile 6	2.11 or later	•	•	•	•
	Windows Mobile 6.1	2.11 or later	•	•	•	•
GeoExplorer 6000 series	Windows Mobile 6.5	3.06.1 or earlier	• ³	• ³	• ³	• ⁴
		4.01.1 or later	• ³	• ³	• ³	•
Geo 5T	Windows Embedded Handheld 6.5 Pro	1.00.3 (Hm25.1.05)	•	•	•	•
Geo 7X	Windows Embedded Handheld 6.5 Pro	4.00.10	• ⁵	• ⁵	• ⁵	•
		4.10.2	• ⁶	• ⁶	• ⁶	• ⁴

¹The internal GNSS receiver ID can be determined by using the SatViewer utility to connect to the GNSS receiver, then selecting the About tab. The receiver ID is the final part of the SiRF III Firmware string.

²The Enhanced GPS variants of the Juno 5 are not supported at this version of the Trimble Positions ArcPad extension.

³The Positions ArcPad extension does not support the GeoXH Centimeter edition option; disable this option before using the software.

⁴GeoXH Centimeter and Geo7X Centimeter handhelds require a Positions ArcPad extension Centimeter edition license.

⁵The Positions ArcPad extension does not support the Geo 7X Centimeter edition option; disable this option before using the software.

⁶The Geo 7X firmware version 4.10.2 adds support for Trimble RTX™ correction services, when used with Trimble Positions ArcPad extension version 10.2.1.1 and later.

Table 20 Trimble Positions ArcPad extension: receivers

Receiver	Receiver part number	Receiver f/w version	Trimble Positions ArcPad extension			
			10.2.1.1	10.2.2.1	10.2.3.1	10.2.4.1, 10.2.5.1
ProXT	52240-20	1.80 or later	•	•	•	•
ProXH	52240-00	1.80 or later	•	•	•	•
ProXRT Model 1	85340-00 / 85340-02	4.44	•	•	•	•
ProXRT Model 2	85340-10 / 85340-12	4.44	•	•	•	•
	85340-20 / 85340-22	4.71	•	•	•	•
Pro 6H	99100-01	1.03.1, 1.04.3	•	•	•	•
Pro 6T	99100-20 / 99100-21	1.03.1, 1.04.3	•	•	•	•
R1 GNSS	102020-00, 102020-10	5.03	—	•	•	•
R2 GNSS ^{1, 2}	R2-001-xx	5.15	—	—	•	•

¹R2 RTK Rover requires a Positions ArcPad extension Centimeter edition license.

²Trimble recommends using the R2 GNSS receiver with a Juno 5 series handheld or newer, as older handhelds do not have the capacity to handle the amount of data that the R2 receiver can output.

Table 21 Trimble Positions ArcPad extension: versions of Esri ArcPad software

		Trimble Positions ArcPad extension			
		10.2.1.1, 10.2.2.1	10.2.3.1	10.2.4.1	10.2.5.1
Esri ArcPad software	10.2, 10.2.2	•	•	•	•
	10.2.3	—	•	•	•
	10.2.4	—	—	•	•
	10.2.5	—	—	—	•

Additional information regarding system requirements for Esri ArcPad is available on the ArcPad website www.esri.com/software/arcpad/index.html.

Trimble Positions toolkit

Table 22 Trimble Positions toolkit: Windows operating system — desktop computers

The Trimble Positions toolkit can be installed on the following operating systems, for use when developing the field software (see Table 23 below for field computer compatibility):

Desktop computer operating system	Windows 7, 8, 8.1, 10	Trimble Positions toolkit
		10.2.0.2, 10.2.0.3, 10.2.1.1, 10.2.1.2
		•

Table 23 Trimble Positions toolkit: version of ArcGIS Runtime SDK for Windows Mobile

The Trimble Positions toolkit must be used with a compatible version of ArcGIS Runtime SDK for Windows Mobile:

		Trimble Positions toolkit runtime	
		10.2.0.2, 10.2.0.3	10.2.1.1, 10.2.1.2
ArcGIS Runtime SDK	10.2	•	—
	10.2.1	—	•

Table 24 Trimble Positions toolkit: Windows operating system — field computers

Applications developed with the Trimble Positions toolkit will connect to the internal receiver of the following field computers:

Field computer	Operating system	Internal GNSS Firmware version or ID number	Trimble Positions toolkit		
			10.2.0.2	10.2.0.3, 10.2.1.1	10.2.1.2
Nomad 900G series	Windows Mobile 6.1	#9803# ¹	•	•	•
Nomad 1050 series	Windows Embedded Handheld 6.5 Pro	GSD4e_4.1.2-P1	—	—	•
Juno S series (SA, SB, SC, SD)	Windows Mobile 6.1	3.2.5.0.3 or later	•	•	•
Juno 3 series (3B and 3D)	Windows Embedded Handheld 6.5 Professional	3.2.5.1.0	•	•	•
Juno 5 series (5B and 5D)	Windows Embedded Handheld 6.5 Professional	7.03	•	•	•
Juno T41, Juno T41 Enhanced GPS	Windows Embedded Handheld 6.5 Professional	7.03	•	•	•
GeoExplorer 2008 and 3000 series	Windows Mobile 6	2.11 or later	•	•	•
	Windows Mobile 6.1	2.11 or later	•	•	•
GeoExplorer 6000 series	Windows Mobile 6.5	3.06.1 or earlier	. ²	. ²	. ²
		4.01.1 or later	. ²	. ²	. ²
Geo 5T	Windows Embedded Handheld 6.5 Pro	1.00.3 (Hm25.1.05)	•	•	•
Geo 7X	Windows Embedded Handheld 6.5 Pro	4.00.10	. ³	. ³	. ³
		4.10.2	. ³	. ⁴	. ⁴

¹The internal GNSS receiver ID can be determined by using the SatViewer utility to connect to the GNSS receiver, then selecting the About tab. The receiver ID is the final part of the SIRF III Firmware string.

²Positions toolkit does not support the Geo XH Centimeter edition option; disable this option before using the software.

³Positions toolkit does not support the Geo 7X Centimeter edition option; disable this option before using the software.

⁴The Geo 7X firmware version 4.10.2 adds support for Trimble RTX™ correction services, when used with Trimble Positions toolkit version 10.2.0.3 and later.

Table 25 Trimble Positions toolkit: receivers

Applications developed with the Trimble Positions toolkit will connect to the following receivers:

Receiver	Receiver part number	Receiver firmware version	Trimble Positions toolkit		
			10.2.0.2, 10.2.0.3	10.2.1.1	10.2.1.2
ProXT	52240-20	1.80 or later	•	•	•
ProXH	52240-00	1.80 or later	•	•	•
Pro 6H	99100-01	1.03.1, 1.04.3	•	•	•
Pro 6T	99100-20 / 99100-21	1.03.1, 1.04.3	•	•	•
R1 GNSS	102020-00, 102020-10	5.03	—	•	•
R2 GNSS ^{1, 2}	R2-001-xx	5.15	—	—	•

¹The R2 RTK Rover is not supported by Trimble Positions toolkit.

²Trimble recommends using the R2 GNSS receiver with a Juno 5 series handheld or newer, as older handhelds do not have the capacity to handle the amount of data that the R2 receiver can output.

Trimble TerraFlex platform

Table 26 TerraFlex™ Mobile: current ranges of field computers' operating systems

			TerraFlex Mobile
Receiver	Operating system	Receiver firmware version	4
Juno 3 series (3B and 3D)	Windows Embedded Handheld 6.5 Professional	3.2.5.1.0	•
Juno 5 series (5B and 5D)	Windows Embedded Handheld 6.5 Professional	7.03	•
TDC100 series	Android 5.1	N/A	•
Geo 7X	Windows Embedded Handheld 6.5 Professional	4.00.10, 4.10.2	•
Yuma 2 tablet	Windows 7 Professional	1.0.0.7	•
R1 GNSS	N/A	5.03	•
R2 GNSS ¹	N/A	5.15	•
R8s ²	N/A	5.10	•
R10 ²	N/A	5.11	•

¹Trimble recommends using the R2 GNSS receiver with a Juno 5 series handheld or newer, as older handhelds do not have the capacity to handle the amount of data that the R2 receiver can output.

²The R8s and R10 receivers are not compatible with iOS devices.

Table 27 TerraFlex Mobile: consumer devices

		TerraFlex Mobile version 4
Platform	Operating system version	
iOS	7, 8, 9,10,11	•
Android ¹	5, 6, 7, 8	•

¹Trimble TerraFlex Mobile is not supported on the Trimble Juno 5 series handheld with Android operating system.

Table 28 TerraFlex Cloud: browser support

Browser	TerraFlex Cloud
Internet Explorer 8	—
Internet Explorer 9, 10	•
Firefox	•
Chrome	•

GPS Pathfinder Field toolkit

Table 29 GPS Pathfinder Field toolkit: Windows operating system versions - desktop and tablet computers

		GPS Pathfinder Field toolkit
		1.40, 1.41, 1.50, 1.60, 1.70
Desktop computer operating system	Windows 7	•
	Windows 8, 8.1	•
Yuma tablet	Windows 7 Professional	•
Yuma 2 tablet	Windows 7 Professional	• ¹

¹The GPS Pathfinder Field toolkit versions 1.41 and later include support for the Enhanced GPS variants of the Yuma 2 tablet.

Table 30 GPS Pathfinder Field toolkit: Windows operating system versions— field computers

Field computer	Operating system	Internal GNSS Firmware Version or ID number	GPS Pathfinder Field toolkit	
			1.40, 1.41, 1.50, 1.60	1.70
Nomad series	Windows Mobile 6	All	•	•
Nomad 800G series	Windows Mobile 6	#8763# ¹	•	•
		#9802# ¹	•	•
Nomad 900G series	Windows Mobile 6.1	#9803#	•	•
Nomad 1050 series	Windows Embedded Handheld 6.5 Professional	GSD4e_4.1.2-P1	—	•
Juno S series (SA, SB, SC, SD)	Windows Mobile 6.1	3.2.5.0.3 or later	•	•
Juno 3 series (3B and 3D)	Windows Embedded Handheld 6.5 Professional	3.2.5.1.0	•	•
Juno 5 series (5B and 5D)	Windows Embedded Handheld 6.5 Professional	7.03	• ²	• ²
GeoExplorer 2008 and 3000 series	Windows Mobile 6	2.03 or earlier	•	•
		2.11 or later	•	•
	Windows Mobile 6.1	2.03 or earlier	•	•
		2.11 or later	•	•
GeoExplorer 6000 series	Windows Mobile 6.5	3.06.1 or earlier	• ³	• ³
		4.01.1 or later	• ³	• ³
Geo 5T	Windows Embedded Handheld 6.5 Pro	1.00.3 (Hm25.1.05)	•	•
Geo 7X	Windows Embedded Handheld 6.5 Pro	4.00.10	•	•
		4.10.2	• ⁴	• ⁴

¹The internal GNSS receiver ID can be determined by using the SatViewer utility to connect to the GNSS receiver, then selecting the About tab. The receiver ID is the final part of the SiRF III Firmware string.

²The GPS Pathfinder Field toolkit versions 1.41 and later include support for the Enhanced GPS variants of the Juno 5 series.

³The GPS Pathfinder Field toolkit does not support the GeoXH Centimeter edition option; disable this option before using the software.

⁴The Geo 7X firmware version 4.10.2 adds support for Trimble RTX™ correction services, when used with GPS Pathfinder Field toolkit version 1.50 and later.

Table 31 GPS Pathfinder Field toolkit: receivers

			GPS Pathfinder Field toolkit		
Receiver	Receiver part number	Receiver firmware version	1.40	1.41, 1.50, 1.60	1.70
ProXT	52240-20	1.80 or later	•	•	•
ProXH	52240-00	1.80 or later	•	•	•
ProXRT Model 1	85340-00 / 85340-02	4.15	•	•	•
		4.44	•	•	•
ProXRT Model 2	85340-10 / 85340-12	4.15	•	•	•
		4.44	•	•	•
	85340-20 / 85340-22	4.71	•	•	•
Pro 6H	99100-01	1.03.1, 1.04.3	—	•	•
Pro 6T	99100-20 / 99100-21	1.03.1, 1.04.3	—	•	•
R1 GNSS	102020-00, 102020-10	5.03	—	•	•
R2 GNSS ¹	R2-001-xx	5.15	—	—	•

¹Trimble recommends using the R2 GNSS receiver with a Juno 5 series handheld or newer, as older handhelds do not have the capacity to handle the amount of data that the R2 receiver can output.

GPS Controller software

Table 32 GPS Controller software: Windows operating system — desktop and tablet computers

		GPS Controller software	
		2.60	2.70
Desktop computer operating system	Windows XP	•	•
	Windows Vista	•	•
	Windows 7	•	•
	Windows 8, 8.1	—	•

Table 33 GPS Controller software: Windows operating system — field computers

		GPS Controller software		
Field computer	Operating system	Internal GNSS Firmware version or ID number	2.60	2.70
Trimble Recon	Windows Mobile 6	—	•	•
Nomad series	Windows Mobile 6	All	•	•
Nomad 800G series	Windows Mobile 6	#8763# ¹	•	•
		#9802# ¹	•	•
Nomad 900G series	Windows Mobile 6.1	#9803#	•	•
Nomad 1050 series	Windows Embedded Handheld 6.5 Pro	GSD4e_4.1.2-P1	—	—
Juno S series (SB, SC, SD)	Windows Mobile 6.1	3.2.5.0.0	•	•
	Windows Mobile 6.1	3.2.5.0.1 or later	•	•
Juno SA	Windows Mobile 6.1	3.2.5.0.3	•	•
Juno 3 series (3B and 3D)	Windows Embedded Handheld 6.5 Professional	3.2.5.1.0	•	•

Field computer	Operating system	Internal GNSS Firmware version or ID number	GPS Controller software	
			2.60	2.70
GeoExplorer 2005 series	Windows Mobile 5.0	All	•	—
GeoExplorer 2008 and 3000 series	Windows Mobile 6	2.03 or earlier	•	•
		2.11 or later	•	•
	Windows Mobile 6.1	2.03 or earlier	•	•
		2.11 or later	•	•
GeoExplorer 6000 series	Windows Mobile 6.5	3.06.1 or earlier	•	•
		4.01.1 or later	—	•
Geo 5T	Windows Embedded Handheld 6.5 Pro	1.00.3 (Hm25.1.05)	•	•
Geo 7X	Windows Embedded Handheld 6.5 Pro	4.00.10	—	•

¹The internal GNSS receiver ID can be determined by using the SatViewer utility to connect to the GNSS receiver, then selecting the About tab. The receiver ID is the final part of the SiRF III Firmware string.

Table 34 GPS Controller software: GPS Pathfinder receivers and Pro series receivers

Receiver	Receiver part number	Receiver firmware version	GPS Controller software versions	
			2.60	2.70
ProXT	52240-20	1.80 or later	•	•
ProXH	52240-00	1.80 or later	•	•
Pro 6H	99100-01	1.01.1	•	•
		1.02.2	•	•
		1.03.1, 1.04.3	—	•
Pro 6T	99100-20 / 99100-21	1.01.1	•	•
		1.02.2	•	•
		1.03.1, 1.04.3	—	•

GNSS Status utility

The following table lists the compatibility between the GNSS Status utility, used with the R1 GNSS receiver, and operating systems on a smart device, handheld, tablet, or office computer.

Table 35 GNSS Status utility: operating systems

		GNSS Status utility
Operating system	iOS	•
	Android™ v 4.1 and later	•
	Windows 7, 8, 8.x	•
	Windows Embedded Handheld 6.5	•

Receiver - antenna compatibility

Table 36 Trimble GNSS receiver-antenna compatibility

			Trimble GNSS antenna								
			Tornado 57972-00	Tornado 57972-10	Tempest (I) 57973-00	Tempest (II) 57973-01	Tempest (III) 57973-10	Hurricane 52446-00	Zephyr Model I 55407-00	Zephyr Model II 85320 (57970-10)	Patch antenna 102017-01
Trimble GNSS / GPS Receiver	Geo 7X	H-Star	•	.1	—	—	—	—	—	—	—
		Centimeter Ed	•	•	—	—	—	—	•	.1	—
	GeoExplorer 5 series	Geo 5T	—	—	•	•	.1	•	•	•	—
	GeoExplorer 6000 series	GeoXH	•	.1	—	—	—	—	—	•	—
		GeoXT	•	•	•	•	.1	—	—	—	—
		GeoXH Centimeter Ed	•	•	—	—	—	—	•	.1	—
	GeoExplorer 2008 / 3000 series	GeoXH	—	.1	—	—	—	—	—	•	—
		GeoXT	—	—	•	•	.1	•	—	•	—
		GeoXM™	—	—	•	•	.1	•	—	•	—
	GeoExplorer 2005 series	GeoXH	—	.1	—	—	—	—	•	—	—
		GeoXT	—	—	•	•	.1	•	—	—	—
		GeoXM	—	—	•	•	.1	•	—	—	—
	Pro series	Pro 6H	•	•	—	—	—	—	—	•	—
		Pro 6T	•	.1	—	—	.1	—	—	•	—
	GPS Pathfinder	ProXRT	•	.1	—	—	—	—	•	•	—
		ProXH	•	.1	—	—	—	—	•	—	—
		ProXT	•	•	•	•	.1	•	•	—	—
	R1 GNSS		—	—	—	—	—	—	—	—	•
	R2 GNSS ²		—	—	—	—	—	—	—	—	—

¹Trimble recommends this combination for optimal performance.

²Trimble recommends using the R2 GNSS receiver with a Juno 5 series handheld or newer, as older handhelds do not have the capacity to handle the amount of data that the R2 receiver can output.

Receiver constellation, frequency, and real-time protocols

Table 37 Trimble GNSS / GPS receiver constellation, frequency, and real-time protocols

		Receiver frequencies and constellations	Real-time protocols and versions supported
Trimble GNSS / GPS Receiver	Geo 7X	GPS L1, QZSS L1 (and GLONASS L1 with the Floodlight option)	RTCM: 2.x, 3.0, and 3.1 CMR, CMR+, CMRx
	Geo 7X with H-Star option	GPS L1/L2, QZSS L1/L2, GLONASS L1/L2	RTCM: 2.x, 3.0, and 3.1 CMR, CMR+, CMRx
	Geo 5T	GPS L1, GLONASS L1 (Option)	RTCM: 2.x, 3.0 CMR, CMR+
	GeoExplorer 6000 series GeoXH	GPS L1/L2, GLONASS L1/L2	RTCM: 2.x, 3.0, and 3.1 CMR, CMR+, CMRx
	GeoExplorer 6000 series GeoXT	GPS L1 (and GLONASS L1 with the Floodlight option)	RTCM: 2.x, 3.0, and 3.1 CMR, CMR+, CMRx
	GeoExplorer 2008 / 3000 series GeoXH	GPS L1/L2	RTCM: 2.x, 3.0 CMR, CMR+
	GeoExplorer 2008 / 3000 series GeoXT	GPS L1	RTCM: 2.x, 3.0 CMR, CMR+
	GeoExplorer 2008 / 3000 series GeoXM	GPS L1	RTCM: 2.x, 3.0 CMR, CMR+
	Pro series Pro 6H	GPS L1/L2 and GLONASS L1/L2	RTCM: 2.x, 3.0, and 3.1 CMR, CMR+, CMRx
	Pro series Pro 6T	GPS L1 (and GLONASS L1 with the Floodlight option)	RTCM: 2.x, 3.0, and 3.1 CMR, CMR+, CMRx
	GPS Pathfinder ProXRT	GPS L1/L2 (and GLONASS L1/L2 with the GLONASS option)	RTCM: 2.x CMR, CMR+
	GPS Pathfinder ProXH	GPS L1 (L1/L2 with Dual Frequency External Antenna)	RTCM: 2.x DGPS
	GPS Pathfinder ProXT	GPS L1	RTCM: 2.x DGPS
	R1 GNSS	GPS L1 and GLONASS L1	RTCM 2.1, 2.2, 2.3, 3.0, 3.1 CMR, CMR+, CMRx
	R2 GNSS ¹	GPS L1/L2, QZSS L1/L2, GLONASS L1/L2 ²	RTCM: 2.x, 3.0, and 3.1 CMR, CMR+, CMRx
	GeoExplorer 2005 series GeoXH	GPS L1 (L1/L2 with Dual Frequency External Antenna)	RTCM: 2.x DGPS
	GeoExplorer 2005 series GeoXT	GPS L1	RTCM: 2.x DGPS
	GeoExplorer 2005 series GeoXM	GPS L1	RTCM: 2.x DGPS
	Juno 5 series	GPS L1	RTCM: 2.x DGPS ³
	Juno 3 series, Juno S series	GPS L1	None
Nomad, Yuma	GPS L1	None	
Yuma 2	GPS L1	RTCM: 2.x DGPS ³	

¹ Trimble recommends using the R2 GNSS receiver with a Juno 5 series handheld or newer, as older handhelds do not have the capacity to handle the amount of data that the R2 receiver can output.

² Capabilities depend on receiver options.

³ Requires RTCM 2.x message Type 1 or Type 9 as well as Type 3. Type 2 is optional if Type 1 is used.

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