



SuperGeo Mobile GIS Software: SuperPad 3 and SuperField 3 Functionality Matrix

The details of function matrix and product comparison are listed as following:

Mapping

Map Interaction		SuperPad 3	SuperField 3
Map Navigation			
	Display or hide the Map Navigator	X	
	Display or hide the scale bar on the map	X	X
	Display or hide the map panning frame	X	X
	Display or hide the status bar	X	X
	Display or hide the north arrow in the map view	X	X
	Open the camera tool for taking stand-alone photographs with the connected camera	X	X
	Reproject a vector layer to another projection and/or datum	X	X
	Open the Script dialog box, which can be used for testing scripts	X	
	Support to create a Quick Project	X	
	Refresh the current map	X	X
	Pan and Zoom the map	X	X
	Zoom the map by sliding the map	X	
	Set the map rotation angle	X	
	Fixed zoom in/out on the center of the map	X	
	Zoom to the full extent of all the layers in the map	X	X
	Zoom the map extent of the selected feature	X	
	Center the map on the current GPS position	X	X
	Center the map on the assigned position	X	
	Zoom to the extent of a particular layer in the map	X	
	Zoom back to the previous extent you were viewing	X	
	Zoom forward to the next extent in the extent history	X	
	Create a spatial bookmark	X	

	Zoom to an existing spatial bookmark	X	
	Go to the location assigned to be the current destination for navigation	X	X
	Go to the selected feature assigned the current destination for navigation	X	X
	Maximize or Minimize the toolbars	X	X
	Set the type and alignment of toolbar	X	X
	Turn on or off the visibility of Quick Menu on the user interface	X	X
	Support to only display one toolbar on the user interface	X	X
	Lock or unlock the screen	X	X
	Save the screen as a picture	X	
	Print the map	X	
Query			
	Identify features in the map	X	X
	Find features in the map	X	
	Measure distances and closed area in the map view in point mode	X	X
	Measure distances and area in the map view in rectangle mode	X	X
	Measure distances and closed area in the map view in freehand mode	X	X
	Measure distances and area in the map view in radial mode	X	X
	Create hyperlink to external application, macro or URL	X	
Export and Import			
	Support to import .apm file	X	
	Support to open .swg, .spm and .spp files	X	.swg and spp only
	Support to import/export .slr file	X	X
	Import the file storing waypoints in .geo, .shp	X	X

	and .kml formats		
	Export the file storing waypoints in .geo, .shp and .kml formats	X	X

Map Display		SuperPad 3	SuperField 3
Data Read			
	Create a new map or layer	X	X
	Open a map	X	X
	Save/save as the current map	X	X
	Display the recently opened maps/layers	X	X
	Adds one or more layers into the current map	X	X
	Add a layer to the current map from enterprise servers	X	
	Download data from the enterprise server	X	
Data Mapping			
	Start/stop editing	X	X
	Select any feature on the map	X	X
	Clear currently selected features	X	X
	Select any feature you tap and display the vertices for the selected feature	X	X
	Select the feature at the current GPS coordinates	X	
	Center the map on the selected feature without changing the current map scale	X	X
	Add a point feature at the tapped location	X	X
	Add a straight-line feature/polyline feature	X	
	Capture a freehand line/rectangle polygon/polygon/ellipse polygon/circle polygon/freehand polygon feature	X	
	Capture a text feature relative to a feature	X	
	Text Ellipse captures a text feature relative to an ellipse	X	

	Add new vertices to the end, or tail, of the selected polyline	X	
	Move the selected feature	X	X
	Rotate the selected polyline or polygon feature	X	
	Change the size of the selected polyline or polygon feature relative to the original size	X	
	Change the size of the selected polyline or polygon feature	X	
	Delete the selected feature	X	X
	Activate offsets for point data capture	X	
	Activate left or right offsets for polyline or polygon data capture	X	
	Add new polylines that start at the end of the selected polyline	X	
	Copy attributes from the previous feature to the new feature	X	
	Capture a point feature in the editable point layer using the current GPS position	X	X
	Capture a single vertex in the current line or polygon feature using the current GPS position	X	
	Continuously capture vertices in the current line or polygon feature using the current GPS position	X	
Smart Editing Toolbar			
	Smart Editing Toolbar is automatically added when a data layer is selected for editing	X	
	Save geometry changes to an existing feature	X	
	End the geometry capture of a new feature and proceeds to capture the feature's attributes	X	
	Undo the last edit made to a feature	X	
	Continuously undo the edit mode to a feature	X	
	Redo the next edit made to a feature	X	
	Continuously redo the edit mode to a feature	X	
	Activate or deactivates use of the pen or	X	

	mouse for capturing features		
	Cancel edits to an existing feature's geometry or cancels capture of a new feature	X	

General Settings		SuperPad 3	SuperField 3
Display			
	Set the desired distance units displayed	X	X
	Set the format of the map coordinates displayed in the status bar	X	X
	Set the desired background color for the Map View	X	X
	Set the color to use for highlighting selected features	X	X
	Specify the number of pixels to use for drawing the highlighted outline	X	X
	Specify the tolerance values that a mouse click or pen tap can be from a feature when identifying or selecting the feature	X	X
Camera			
	Specify the default folder for saving stand-alone photos	X	X
	Set the prefix for the file name of the photo	X	X
	Use the slider to specify the picture quality for the photo (JPEG) image file	X	X
	Set the button (on Windows Mobile/Windows CE devices) or function key (on PCs) to be used as a shortcut for starting the Camera	X	X
	The file name of the photo can consist of the date and time added to the prefix (for stand-alone photos) or field name (for photos associated with a feature)	X	X

	Save the X, Y coordinates of the photo	X	X
File Path			
	Specify the default folder to open maps or add layers	X	X
	Specify the default folder to search for system files	X	X
	Specify the default folder to store Extensions	X	X
Font			
	Specify the default font to be used for labeling features	X	X
	Specify the default font to be used for dialog box text	X	X
	Specify the font for controls, pages, and forms in SuperPad Studio	X	
Others			
	Set the Open Map dialog box whether to display when system starting or not	X	
	The size for toolbar and menu buttons would be automatically adjusted depend on the solution of screen	X	X
	Activate Today screen plug-in	X	X
	Allow to use relative path for layers	X	X
	Provide several types of scale bars and set the patterns	X	X
	Set some commonly-used tools to place on the Favorites Toolbar	X	X
Server			
	Set to automatically refresh the Server layers to add to the map	X	
	Set the Username and Password to be used to access secure services	X	

Locale			
	Allow you to specify the locale you want to use	X	X
	Set to display all the locales supported by the operating system	X	X
	Display the locale's abbreviation	X	X
	Display the locale's language in the locale's native language	X	X
	Display the locale's country, or region, in the locale's native language	X	X
	Display the locale's language in the system locale's language	X	X
	Display the locale's country, or region, in the system locale's language	X	X
	Display the locale ID	X	X
	Display the locale's ANSI code page	X	X
	Display the locale's OEM (DOS) code page	X	X
	Display the locale language driver ID	X	X

Property Contents

Properties		SuperPad 3	SuperField 3
Map Properties			
	Allow to specify snapping tolerance while snapping occurs	X	X
	Specify the map scale for the map view	X	X
	Specify the reference scale for the map layers' symbols and label text	X	X
	Specify the reference scale as the same as the current map scale	X	X
	Specify the name of the current map	X	X
	Set the map extent or center the map at specified coordinates	X	X
	Edit or delete existing spatial bookmarks	X	

	Display the information of coordinate system	X	X
Layer Properties			
	Choose the shapefile you want to use as the GPS Tracklog file (a PointZ shapefile)	X	X
	The tracklog file can be stored in many formats	X	X
	Tracklog can be recorded in point, line, polygon	X	X
	Set the properties of GPS tracklog	X	X
	The number of GPS points currently stored in the GPS tracklog file can be displayed or deleted	X	X
	Set the logging interval	X	X
	Set the distance between the previous and next points when sampling	X	X
	Set the interval time of playing the tracklog	X	X
	Set up the properties of the map grid lines, such as style, width, color, text size and text color.	X	X
	Support to select a font for the label text	X	X
	The labels can be only drawn after all the features for the associated layer have been drawn.	X	X
	The symbol shown can be set to display features with the corresponding attribute values.	X	X
	Add or delete a category consisting of a symbol, value, and label	X	X
	Specify the minimum and maximum display scales of the layer	X	X
	Access files or Web pages with the Hyperlink tool	X	
	Display the names, types, size and decimal recision of attribute fields.	X	
	The transparent color and the layer	X	X

	transparency can be specified for various kinds of layers		
	Display the geographic extent of the layer.	X	X
	For vector layers, the code page of the table and the number of features in the layer are also displayed.	X	X
	List and display information about all the sub-layers in the group layer	X	X
	Display, refresh, identify the group layer	X	X
	Show the minimum and maximum map scale that the sub-layer is displayed at.	X	X
	Display the minimum/maximum x-coordinate and y-coordinate of the sub-layer's extent in map projection units	X	X
Label Properties			
	Displays the text symbols using a list view	X	X
	Set the text symbol scale to provide a preview of how the text symbol is drawn at different scales	X	X
	Text Symbol Preview displays the current text symbol definition	X	X
	Display the text symbol label	X	X
	Specify the color and background color of label text	X	X
	Set the shadow and halo of the symbol label	X	X
	Specify the font properties for label text, such as font, code page, size, bold, italic, underline and strike out.	X	X
	Displays the current font definition	X	X
	Specify the position of the label relative to the associated point feature	X	X
	For line features, the horizontal and vertical label placement positions can be specified	X	X
	For line features, the along, position and	X	X

	orientation types can be set.		
	Specify the minimum and maximum display scales of the labels	X	X
Symbol Properties			
	Display the symbols using a list view	X	X
	Set the symbol scale to provide a preview of how the symbol is drawn at different scales	X	X
	Choose the style to be displayed	X	X
	Numerous types of point symbols are provided	X	X
	Specify the outline and fill color of the point symbols	X	X
	Point symbols can be filled with the specified fill color or not	X	X
	Specify the point size of the point symbols	X	X
	5 types of line symbols are provided, such as solid, dash, dot, dash dot, or dash dot dot.	X	X
	Specify the width and color of the line symbols	X	X
	5 types of outline styles of the polygon symbols are provided, such as solid, dash, dot, dash dot, or dash dot dot	X	X
	Specify the outline width of the polygon symbols	X	X
	Specify the outline width, outline color, fill color of the polygon symbols	X	X
	Polygon symbols can be filled with the specified fill color or not	X	X
	Allow to delete the existing symbology settings and specify the default symbol settings for the point, line or polygon layer	X	X
	Specify the minimum and maximum display scales of feature symbols	X	X
Feature Properties			
	A custom form can display attributes using	X	X

	common form controls, such as text boxes, combo boxes, and check boxes		
	When accessed via the Identify tool, all values are read-only	X	X
	Via the Feature Properties tool or by tapping a feature with the Query tool, all values are read/write	X	Read only
	Display or edit the property names and values consisted of the associated vector features	X	Display only
	Edit the decimal places of the attribute consisted of the associated vector features	X	
	Edit the default, max and min value of the attribute consisted of the associated vector features	X	
	Display the photo, or digital image file, that is associated with the selected feature	X	X
	Rotate the image 90 degrees to the left or right	X	X
	Open the Camera tool to capture a new photo by tapping a button	X	X
	Navigate to and select an existing photo on your device	X	X
	Display the attribute values of features or not	X	X
	Displays the symbols defined for the layer in the ArcPad Layer file (.apl)	X	X
	Display and edit the symbol labels defined for the layer in the ArcPad layer file (.apl)	X	X
	Add and delete legend categories	X	X
	Display and edit the coordinates of point features or vertices of line and polygon features	X	X
	Display the part number of each vertex in the selected line or polygon feature	X	X
	Display the vertex number of each vertex in each part of the selected line or polygon feature	X	X
	Display the length and area of the selected	X	X

	feature		
Layers Display			
	Display icons together with layer names	X	X
	Support standard and custom type of layer icons	X	X
	Change the visibility of layers	X	X
	Display the name of each layer	X	X
	Activate or deactivate layers for editing	X	X
	Display the location, or folder, where the layer file is stored on the device	X	X
	Select a projection file (.prj) to use for the current map's coordinate system and projection parameters	X	X
	Move the layer up or down one position in the layer drawing order	X	X
	Remove the selected layer	X	X
Legend			
	Show or hide the legend for the corresponding layer	X	X
	Turn on or off the visibility of the layer and layer's symbol	X	X
Snapping Settings			
	Specify the visibility of snapping buffer	X	X
	Display the name of each layer	X	X
	Toggle vertex/point/edge snapping on or off for line or polygon layer	X	X
	Toggle end snapping on or off for line layers	X	X

Locale		SuperPad 3	SuperField 3
Locale			
	*Provide several language packs	10	10
	Support to set the code page for a vector layer	X	X
	Specify all attribute data in the vector layer's dBASE file to be stored using Unicode encoding	X	X

Note: SuperPad supports Arabic, Traditional Chinese, German, English, Spanish, French, Japanese, Portuguese, Russian, and Turkey interfaces.

GPS Supported

GPS		SuperPad 3	SuperField 3
GPS Manipulation			
	Activate/deactivate the GPS	X	X
	Represents the satellites number and their status	X	X
	Represents the information of GPS	X	X
	Show the GPS direction and direction to destination	X	X
	Display the receiving quality of GPS	X	X
	Show the GPS data being received from GPS	X	X
	GPS status bar indicates the current conditions of the GPS measurements	X	X
	Start/stop storing GPS points in the tracklog file	X	X
	Open/close the GPS Debug Window	X	X
	Activate/deactivate the automatic rotation of the map based on the GPS direction of movement	X	X
	Add a waypoint at the tapped location or using the current GPS position	X	X
	Edit the information of added waypoints	X	X
	Center the map on the selected waypoint	X	X

	Set the selected waypoint to be the destination for GPS navigation	X	X
	Delete the selected or all waypoints	X	X
	Change the visibility of the waypoints	X	X
GPS Settings			
	Support NMEA 0183 protocols	X	X
	Allow to choose the COM port	X	X
	Allow to choose the baud rate of GPS receiver's output	X	X
	Assist user in searching for a connected GPS	X	X
	Show GPS activity in system tray to indicate that the GPS receiver is active	X	X
	Automatically pan the map to keep the GPS position centered when the GPS is active	X	X
	The raw data output by a GPS receiver is logged to the GPS log file	X	X
Specify Data Capture Rule			
	Specify the number of point or vertex positions to calculate an average coordinate	X	X
	Specify the capture position/distance interval when capturing continuous vertices of a polyline or polygon feature with the GPS	X	X
GPS Display			
	Turn on or off the visibility of the GPS cursor	X	X
	Set the size of the GPS cursor	X	X
	Turn on or off the visibility of the GPS trail	X	X
	Set the color, length and width of the GPS trail	X	X
	Turn on or off the visibility of the GPS Status bar	X	X
	Set the properties of text displayed on the GPS status bar	X	X
	Set the background color of the GPS status	X	X

	bar		
Serial Port Parameters			
	Choose the type of error-checking your serial device uses	X	X
	Choose the baud rate of the serial device's output	X	X
	Choose the type of error-checking your serial device uses	X	X
	Choose the RTS flow & DTR flow control your serial device require	X	X
	Set the number of data bits used by your serial device to represent characters	X	X
	Set the time between character transmission for your serial device	X	X
	The CTS signal & DSR signal are monitored for output flow control	X	X
Quality thresholds for the GPS receiver			
	Support to specify GPS quality thresholds when you capture GPS positions	X	X
	Provide various quality parameters	X	X
	Support to choose one or two of quality parameters and set the values while using the GPS	X	X
	3D mode is supported	X	
GPS Height			
	Enter the height of the GPS antenna to determine the height for the z-value	X	X
	Enter the distance between the geoid and ellipsoid to determine the height for the z-value	X	X
Datum Settings			
	Support to choose the datum of your GPS	X	X

	receiver		
	Built in various datums	X	X
	GPS Initialization String	X	X
Alerts			
	Configure alerts that notify you about various GPS quality or navigation conditions	X	X
	Each alert has two components: a message and a user-defined sound	X	X
	Activate the sound associated with the alert beforehand	X	X
	Allow to adjust the alert sound	X	X
Location			
	Specify the starting latitude, longitude and altitude to use for the GPS position	X	X
	Enter the minimum distance from your target location	X	X

Data and Spatial Reference Support

Data and Spatial Reference		SuperPad 3	SuperField 3
Projections and National Grids			
	Supported projections and national grids	X	X
Vector Data Support			
	Support *.shp	X	X
	Support *.geo	X	X
	Support script files	X	X
	Map projection metadata files (*.prj)	X	X
	Code page files (*.cpg)	X	X
	Layer icon files (*.ICO)	X	X
	Support a graphics layer written in XML	X	X
	Support a photo layer written in XML	X	X

	MapInfo Interchange Format (*.mif)	X	X
	Drawing Interchange Format, or Drawing Exchange Format (*.dxf)	X	X
Raster Data Support			
	Graphic Interchange Format, or GIF (*.gif)	X	X
	JPEG (*.jpg)	X	X
	JPEG 2000 (*.jp2)	X	X
	MrSID Generation Two/Three, or MG2/MG3 (*.sid)	X	X
	Portable Network Graphics, or PNG (*.png)	X	X
	Tagged Image File Format, or TIFF, including GeoTIFF (*.tif)	X	X
	Windows Bitmap (*.bmp)	X	X
	Enhanced Compression Wavelet (*.ecw)	X	X
	ERDAS raster file (*.lan)	X	X
	SuperGIS Raster file (*.sgr)	X	X
OGC Standards Support			
	Display WMS layers	X	
	Display WFS layers	X	

Advanced Supports

Advanced Settings		SuperPad 3	SuperField 3
AUX			
	Set the COM port that your serial device is connected to on your PC or mobile device	X	X
	Choose the baud rate of your serial device's output	X	X
	Specify additional communication settings for your auxiliary serial port	X	X

Display Quality			
	Allow to use greeking thresholds to draw point, polyline and polygon features	X	X
	Allow to use greeking thresholds to draw multi point features	X	X
Scripting			
	Choose the scripting language or engine	X	
Extensions			
	Build in several extensions	7 *	0
	Display the module or extension name	X	X
	Display the version number of the module or extension	X	X
	Display the name of the company that developed the module or extension	X	X

Note: The extensions include Sketch Labeling, Advanced Attribute Editing, Network Tool, Bird View, Fixed Zoom, Data Services Toolbar and Laser Rangefinder.

Note: Users can download free other extensions on SuperGeo Developer Network (<http://sgdn.supergeotek.com/download.aspx>) to install in SuperField 3.

Documentation

Help Guide		SuperPad 3	SuperField 3
Help Guide			
	Open the About SuperPad/SuperField dialog box	X	X
	Displays the Quick Reference Help	X	X
	On the PC, opens the Reference Guide	X	
	On the PC, opens the User Guide	X	