SPSS Stats Premium Bundle includes: Base, Advanced, Regression, Custom Tables, Forecasting, Categories, Missing Values, Decision Trees, Data Prep, Exact Tests, Complex Samples, Neural Networks, Conjoint, Direct Marketing, plus Amos.

Base package
The Base package includes the following features:

Data access and management
- Compare two data files for compatibility
- Data prep features: Define Variable Properties tool; Copy Data Properties tool, Visual Bander, Identify Duplicate Cases; Date/Time wizard
- Data Restructure wizard
  - Single record to multiple records
  - Multiple records to single record
- Direct Excel data access
- Easier importing from Excel and CSV
- Export data to SAS and current versions of Excel
- Export/insert to Database wizard
- Import data from IBM Cognos® Business Intelligence
- Import/export to/from Dimensions
- Import Stata files (until V14)
- Long variable names
- Longer value labels
- Multiple datasets can be run in one SPSS session
- ODBC Capture—DataDirect drivers
- OLE DB data access
- Password protection
- SAS 7/8/9 data files (including compressed files)
- Text wizard
- Unicode support
- Very long text strings

Graphs
- Auto and cross-correlation graphs
- Basic graphs
• Mapping (geospatial analysis)
• Chart gallery
• Chart options
• ChartBuilder UI for commonly used charts
• Charts for multiple response variables
• Graphics Production Language for custom charts
• Interactive graphs—scriptable
• Overlay and dual Y charts
• Paneled charts
• ROC analysis
• Time series charts

**Output**
• Case summaries
• Style output
• Conditional formatting
• Codebook
• Export charts as Microsoft Graphic Object
• Export model as XML to SmartScore
• Export to PDF
• Export to Word/Excel/PowerPoint
• HTML output
• Improved performance for large pivot tables
• OLAP cubes/pivot tables
• Output management system
• Output scripting
• Reports summaries in rows and columns
• Search and replace
• Smart devices (tablets and phones)
• Table to graph conversion
• Web reports

**Help features**
• Application examples
• Index
• Statistics coach
• Tutorial
• Extensions
  
  **Data editor enhancements**
  • Custom attributes for user-defined metadata
  • Spell checker
  • Splitter controls
  • Variable sets for wide data
  • Variable icons

  **Extended programmability**
  • Custom UI builder enhancements (work seamlessly with Python and R and can be used in IBM SPSS Modeler)
  • New Extensions hub
  • Custom dialog builder for Extensions
  • Flow control or syntax jobs
  • Partial least squares regression
  • Python, .NET and Java for front-end scripting
  • SPSS equivalent of the SAS DATA STEP
  • Support for R algorithms and graphics
  • User-defined procedures

  **Statistics**
  • ANOVA (in syntax only)
  • Automatic linear models
  • Cluster
  • Correlate—bivariate, partial, distances
  • Crosstabs
  • Define variable sets
  • Descriptive ratio statistics (PVA)
  • Descriptive
  • Discriminant analysis
  • Enhanced model viewer on two-step cluster and new nonparametrics
  • Explore
  • Factor analysis
  • Frequencies
  • Geo-spatial analytics (STP and GSAR) (NEW!!!)
  • Improved performance for frequencies, crosstabs, descriptives (Statistics Base Server)
• Matrix operations
• Means
• Monte Carlo simulation
• Nearest neighbor analysis
• New nonparametric tests
• One way ANOVA
• Ordinal regression (PLUM)
• Ordinary least squares regression
• PP plots
• QQ plots
• Ratio
• Reliability and ALSCAL multidimensional scaling
• ROC curve
• Rule checking on secondary SPC charts
• Summarize data
• T tests: paired samples, independent samples, one-samples
• Two-step cluster: categorical and continuous data/large data sets

**Multithreaded algo**
• SORT

**Standard package**

The Standard package includes the Base package plus the following features:

**Regression**
• Binary logistic regression
• Logit response models
• Multinomial logistic regression
• Nonlinear regression
• Probit response analysis
• Two stage least squares
• Weighted least squares

**Advanced statistics**
• Cox regression
• General linear modeling (GLM)
  - General factorial
  - Multivariate (MANOVA)
- Repeated measures
- Variance components
  - Generalized linear models and generalized estimating equations
- Gamma regression
- Poisson regression
- Negative binomial
  - GENLOG for loglinear and logit
  - Generalized linear mixed models (GLMM) (ordinal targets included)
  - Bayesian statistics
  - Hierarchical loglinear models
  - Kaplan Meier
  - Linear mixed-level models (aka hierarchical linear models)
- Survival
  - Variance component estimation

**Custom tables**
- 35 descriptive statistics
- Drag and drop interface
- Inferential statistics
- Nested tables
- Place totals in any row, column, or layer
- Post computed categories
- Effective base for weighted sample results
- Put multiple variables into the same table
- Significance tests on multiple response variables
- Significance test in custom tables main table
- Significance values for column means and column proportion tests
- Specialized multiple response set tables
- False discovery correction method for multiple comparisons
- Syntax converter
- Table preview

**Professional package**

The Professional package includes Base and Standard package features, plus the following:

**Forecasting**
• Auto regressive integrated moving average
• Autoregression
• Expert modeler exponential smoothing methods
• Forecast multiple series (outcomes) at once
• Temporal causal modeling
• Seasonal decomposition
• Spectral analysis

**Categories**
• Correspondence analysis (ANACOR)
• Principal components analysis for categorical data (CATPCA; replaces PRINCALS)
• Ridge regression, lasso, elastic net (CATREG)
• CORRESPONDENCE
• Nonlinear canonical correlation (OVERALS)
• Multidimensional scaling for individual differences scaling with constraints (PROXSCAL)
• Preference scaling (PREFSCAL; multidimensional unfolding)
• Multiple correspondence analysis

**Missing values**
• Data patterns table
• Imputation with means estimation or regression
• Listwise and pairwise statistics
• Missing patterns table
• Multiple imputation of missing data
• Pooling

**Decision trees**
• C&RT
• CHAID
• Exhaustive CHAID
• QUEST

**Data preparation**
• Automated data preparation—enhanced model viewer for automated data preparation
• Validate data—streamline the process of validating data before analyzing it
• Anomaly detection—identify unusual cases in a multivariate setting
• Optimal binning
**Premium package**

The Premium package includes Base, Standard and Professional features plus the following:

**Exact tests**
- Cochran’s Q test
- Contingency coefficient
- Cramer’s V
- Fisher’s exact test
- Somers’ D—symmetric and asymmetric
- Friedman test
- Gamma
- Goodman and Kruskal tau
- Jonckheere-Terpstra test
- Kappa
- Kendall’s coefficient of concordance
- Kendall’s tau-b and tau-c
- Kruskal-Wallis test
- Likelihood ratio test
- Linear-by-linear association test
- Mann-Whitney U or Wilcoxon rank-sum W test
- Marginal homogeneity test
- McNemar test
- Median test
- Pearson Chi-square test
- Pearson’s R
- Phi
- Sign test
- Spearman correlation
- Uncertainty coefficient—symmetric or asymmetric
- Wald-Wolfowitz runs test
- Wilcoxon signed-rank test

**Complex samples (CS)**
- CS Cox regression (also multithreaded)
- CS descriptives
- CS general linear models
• CS logistic regression
• CS ordinal regression
• CS selection
• CS tabulate
• Sampling wizard/Analysis Plan wizard

**Neural networks**
• Multilayer perception
• Radial basis function

**Conjoint**
• Estimate utilities (CONJOINT)
• For conjoint analysis (ORTHOPLAN)
• PLANCARDS

**Direct marketing**
• Cluster analysis
• Contact profiling
• Control package test
• Propensity to purchase
• RFM analysis—recency, frequency, monetary
• Zip code response