

## NeuroSolutions Feature Comparison

Features	NeuroSolutions	NeuroSolutions Pro
<b>Key Features</b>		
Microsoft Excel™ Ribbon Control	X	X
Genetic Optimization	--	X
Advanced Input Optimization	--	X
Number of Pre-Built Neural Network Topologies	4	17
Number of Learning Paradigms	1	4
Maximum Number of Hidden Layers	2	Unlimited
Maximum Number of Inputs / Outputs / Neurons Per Layer	50	Unlimited
Number of Exemplars / Samples	Unlimited	Unlimited
<b>- Topologies</b>	<b>4</b>	<b>17</b>
Linear Regression	X	X
Multilayer Perceptron (MLP)	X	X
Generalized Feedforward Network	X	X
Probabilistic Neural Network (PNN)	X	X
Modular Network	--	X
Jordan / Elman Networks	--	X
Self-Organizing Map (SOM)	--	X
Principal Component Analysis (PCA)	--	X
Radial Basis Function (RBF)	--	X
General Regression Neural Network (GRNN)	--	X
Neuro-Fuzzy Network (CANFIS)	--	X
Support Vector Machine Network	--	X
Support Vector Machine Regression Network	--	X
Hopfield Network	--	X
Time Delay Neural Network (TDNN)	--	X
Time-Lag Recurrent Network (TLRN)	--	X
Recurrent Network	--	X

<b>- Learning Paradigms</b>	<b>1</b>	<b>4</b>
Backpropagation	X	X
Unsupervised Learning	--	X
Recurrent Backpropagation	--	X
Backpropagation Through Time	--	X
<b>- Optimization Techniques</b>	<b>0</b>	<b>4</b>
Genetic Optimization	--	X
Input Optimization: Greedy Search	--	X
Input Optimization: Back Elimination	--	X
Input Projection Component	--	X
<b>- Gradient Descent Methods</b>	<b>4</b>	<b>4</b>
Resilient Backpropagation (RProp)	X	X
Step / Momentum	X	X
Delta Bar Delta	X	X
Quickprop	X	X
Conjugate Gradient	X	X
Levenberg-Marquardt	X	X
<b>- Advanced Features</b>		
Weight Regularization	X	X
Exemplar Weighting	X	X
Sensitivity Analysis	X	X
Macros / OLE Automation	X	X
Iterative Prediction	--	X
User-defined Neural Components (using DLLs)	--	X