

# RED-E-SET Product Specifications

Unit	ULP - Ultra Low Profile	LP - Low Profile	HP - High Profile
<b>PWB Thickness</b>	Same as machine	Same as machine	Same as machine
<b>Minimum PWB Size</b>	Length - machine dependent Width - 33.5mm (1.32")	Length - machine dependent Width - 33.5mm (1.32")	Length - machine dependent Width - 33.5mm (1.32")
<b>Maximum PWB Size</b>	Length - 584mm (23") Width - machine dependent	Length - 584mm (23") Width - machine dependent	Length - 584mm (23") Width - machine dependent
<b>Module Dimensions</b>	L - Varied to 609mm (24") W - 33.5mm (1.32") H incl. pins - 23.3mm (.917") H excl. pins - 16.66mm (.656")	L - Varied to 609mm (24") W - 33.5mm (1.32") H incl. pins - 33.04mm (1.30") H excl. pins - 22.1mm (.870")	L - Varied to 609mm (24") W - 33.5mm (1.32") H incl. pins - 44.65mm (1.76") H excl. pins - 28.6mm (1.13")
<b>Maximum Module Count</b>	Machine dependent	Machine dependent	Machine dependent
<b>Max Pin Count/Module</b>	Varies with length. 3 rows, staggered spacing	Varies with length. 3 rows, staggered spacing	Varies with length. 3 rows, staggered spacing
<b>Pin Spacing</b>	Staggered 12.5mm (.500") X 18mm (.720")	Staggered 12.5mm (.500") X 18mm (.720")	Staggered 12.5mm (.500") X 18mm (.720")
<b>Pin Length - Below Board Clearance</b>	6.6mm (.261")	10.95mm (.431")	16mm (.633")
<b>Pin Diameter</b>	3.5mm (.140")	3.5mm (.140")	3.5mm (.140")
<b>Pin Force</b>	.16 grams per inch travel	.16 grams per inch travel	.16 grams per inch travel
<b>Pin/Component Contact</b>	Yes	Yes	Yes
<b>Activation Method</b>	Pin/Spring Force	Pin/Spring Force	Pin/Spring Force
<b>Mounting Method</b>	Magnetic, Screw down, QuickSet, Press fit pin	Magnetic, Screw down, QuickSet, Press fit pin	Magnetic, Screw down, QuickSet, Press fit pin
<b>Average Setup Time</b>	Under 3 minutes	Under 3 minutes	Under 3 minutes
<b>Custom Sizes Available</b>	Yes	Yes	Yes
<b>Locking Method</b>	Manual lock or Motorized	Manual lock or Motorized	Manual lock or Motorized

<b>XL - Extra Long</b>	<b>HD - High Density</b>	<b>AS - Autoset</b>	<b>GO!</b>
Same as machine	Same as machine	Same as machine	Same as machine
Length - machine dependent Width - 33.5mm (1.32")	Length - machine dependent Width - 33.5mm (1.32")	Length - machine dependent Width - 33.5mm (1.32")	Length - machine dependent Width - 33.5mm (1.32")
Length - machine dependent Width - machine dependent	Length - 419mm (16.5") Width - machine dependent	Length - 419mm (16.5") Width - machine dependent	Length - Unlimited Width - machine dependent
L - 609mm (24") and up W - 33.5mm (1.32") H incl. pins - see ULP, LP, HP H excl. pins - see ULP, LP, HP	L - Varied to 457mm (18") W - 33.5mm (1.32") H incl. pins - see ULP, LP, HP H excl. pins - see ULP, LP, HP	L - Varied to 609mm (24") W - 33.5mm (1.32") H incl. pins - see ULP, LP, HP H excl. pins - see ULP, LP, HP	L - Unlimited W - 33.5mm (1.32") H incl. pins - 32mm (1.26") H excl. pins - 20.1mm (.793")
Machine dependent	Machine dependent	Machine dependent	Machine dependent
Varies with length. 3 rows, staggered spacing	Varies with length. 3 rows, matrix spacing	Varies with length. 3 rows, staggered spacing	Varies with length. 3 rows, staggered spacing
Staggered 12.5mm (.500") X 18mm (.720")	Matrix spacing 8.5mm (.335") X 9.5mm (.375")	Staggered 12.5mm (.500") X 18mm (.720")	Staggered 12.5mm (.500") X 18mm (.720")
See ULP, LP, HP	See ULP, LP, HP	See ULP, LP, HP	11.43mm (.450")
3.5mm (.140")	3.5mm (.140")	3.5mm (.140")	3.5mm (.140")
Varies with firmness	.16 grams per inch travel	.16 grams per inch travel	Varies with firmness
Yes	Yes	Yes	Yes
Spring or Polyurethane	Pin/Spring Force	Pin/Spring Force	Polyurethane
Magnetic, Screw down, QuickSet, Press fit pin	Magnetic, Screw down, QuickSet, Press fit pin	Magnetic, Screw down, QuickSet, Press fit pin	Magnetic, Screw down, QuickSet, Press fit pin
Automated	Under 3 minutes	Fixed and Reset Modes	No setup time
Yes	Yes	Yes	Yes
Manual lock or Non locking	Manual lock or Motorized	Motorized	No lock

<b>UHD - Ultra High Density</b>	<b>VB - Vacuum Box</b>	<b>Tower</b>
Same as machine	Same as machine	Same as machine
Length - machine dependent Width - machine dependent	Length - machine dependent Width - 72.39mm (2.85")	Length - machine dependent Width - machine dependent
Length - custom Width - machine dependent	Length - 330mm (13") Width - machine dependent	Length - custom Width - machine dependent
Custom sizes	L - 400mm (16") W - 33.5mm (1.32") H incl. pins - 33.04mm (1.30") H excl. pins - 22.1mm (.870")	Custom sizes
Machine dependent	Machine dependent	Machine dependent
Varies with custom unit	3 rows staggered - 59 pins      3 rows matrix - 117 pins	Varies with custom unit
Matrix spacing 8.5mm (.335") X 9.5mm (.375")	See LP and HD	Matrix spacing 8.5mm (.335") X 9.5mm (.375")
See LP, HP	See LP	See LP, HP
3.5mm (.140")	3.5mm (.140")	3.5mm (.140")
.16 grams per inch travel	.16 grams per inch travel	.16 grams per inch travel
Yes	Yes	Yes
Pin/Spring Force	Pin/Spring Force	Pin/Spring Force
Magnetic, Screw down, QuickSet, Press fit pin	Magnetic Standoff or Side Chucks	Magnetic, Screw down, QuickSet, Press fit pin
Under 3 minutes	Under 7 minutes	Automated
Yes	Yes	Yes
Manual lock	Manual lock	Motorized