



Micrel Precision Edge® Cross Reference Guide

On Semiconductor	Micrel (pin-for-pin) Plug-In Replacement ¹	Micrel Improved Alternative	Superior Jitter	Smallest Footprint	Better AC Performance	Internal Termination
MC100E111FN	SY100E111AJC	SY89112U	X	X	X	X
MC100E111FNR2	SY100E111AJC TR	SY89112U	X	X	X	X
MC100LVE111FN	SY100E111LJC	SY89112U	X	X	X	X
MC100LVE111FNR2	SY100E111LJC TR	SY89112U	X	X	X	X
MC100E195FN	SY100E195JC	SY89295U	X	X	X	X
MC100E195FNR2	SY100E195JC TR	SY89295U	X	X	X	X
MC100E196FN	SY100E196JC	SY89296U	X	X	X	
MC100E196FNR2	SY100E196JC TR	SY89296U	X	X	X	
MC100LVE222FA	SY100E222LTI	SY89200/202U	X	X	X	X
MC100LVE222FAR2	SY100E222LTI TR	SY89200/202U	X	X	X	X
MC100EL11D	SY100EL11VZI	SY89311U/SY89851U	X	X	X	
MC100EL11DR2	SY100EL11VZI TR	SY89311U/SY89851U	X	X	X	
MC100EL11DT	SY100EP11VKI ²	SY89311U/SY89851U	X	X	X	
MC100EL11DTR2	SY100EP11VKI TR ²	SY89311U/SY89851U	X	X	X	
MC100LEVEL11D	SY100EL11VZI	SY89311U/SY89851U	X	X	X	
MC100LEVEL11DR2	SY100EL11VZI TR	SY89311U/SY89851U	X	X	X	
MC100LEVEL11DT	SY100EP11VKI ²	SY89311U/SY89851U	X	X	X	
MC100LEVEL11DTR2	SY100EP11VKI TR ²	SY89311U/SY89851U	X	X	X	
MC100EL14DW	SY100EL14VZI	SY89831U/SY58035U	X	X	X	X
MC100EL14DWR2	SY100EL14VZI TR	SY89831U/SY58035U	X	X	X	X
MC100LEVEL14DW	SY100EL14VZI	SY89831U/SY58035U	X	X	X	X
MC100LEVEL14DWR2	SY100EL14VZI TR	SY89831U/SY58035U	X	X	X	X
MC100EL15D	SY100EL15ZI	SY100EP15V/SY89831U	X	X	X	X
MC100EL15DR2	SY100EL15ZI TR	SY100EP15V/SY89831U	X	X	X	X
MC100EL16D	SY100EL16VZI	SY58601U/SY89206V	X	X	X	X
MC100EL16DR2	SY100EL16VZI TR	SY58601U/SY89206V	X	X	X	X
MC100EL16DT	SY100EL16VKI	SY58601U/SY89206V	X	X	X	X
MC100EL16DTR2	SY100EL16VKI TR	SY58601U/SY89206V	X	X	X	X
MC100LEVEL16D	SY100EL16VZI	SY58601U/SY89206V	X	X	X	X
MC100LEVEL16DR2	SY100EL16VZI TR	SY58601U/SY89206V	X	X	X	X
MC100LEVEL16DT	SY100EL16VKI	SY58601U/SY89206V	X	X	X	X
MC100LEVEL16DTR2	SY100EL16VKI TR	SY58601U/SY89206V	X	X	X	X

Notes:

1. Pin-for-pin, plug-in replacement: electrical specifications and pinout are 100% compatible.
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MC100EL32D	SY100EL32VZI	SY89312V/SY89871U	X	X	X	
MC100EL32DR2	SY100EL32VZI TR	SY89312V/SY89871U	X	X	X	
MC100EL32DT	SY100EP32VKI ²	SY89312V/SY89871U	X	X	X	
MC100EL32DTR2	SY100EP32VKI TR ²	SY89312V/SY89871U	X	X	X	
MC100LVEL32D	SY100EL32VZI	SY89312V/SY89871U	X	X	X	
MC100LVEL32DR2	SY100EL32VZI TR	SY89312V/SY89871U	X	X	X	
MC100LVEL32DT	SY100EP32VKI ²	SY89312V/SY89871U	X	X	X	
MC100LVEL32DTR2	SY100EP32VKI TR ²	SY89312V/SY89871U	X	X	X	
MC100EL33D	SY100EL33ZI	SY89313V	X	X		
MC100EL33DR2	SY100EL33ZI TR	SY89313V	X	X		
MC100EL33DT	SY100EP33VKI ²	SY89313V	X	X		
MC100EL33DTR2	SY100EP33VKI TR ²	SY89313V	X	X		
MC100LVEL33D	SY100EL33LZI	SY89313V	X	X	X	
MC100LVEL33DR2	SY100EL33LZI TR	SY89313V	X	X	X	
MC100EL34D	SY100EL34ZI (5V)	SY89871U/SY89874U	X	X	X	X
MC100EL34DR2	SY100EL34ZI TR (5V)	SY89871U/SY89874U	X	X	X	X
MC100EL34D	SY100EL34ZI (3.3V)	SY89871U/SY89874U	X	X	X	X
MC100EL34DR2	SY100EL34ZI TR (3.3V)	SY89871U/SY89874U	X	X	X	X
MC100EL52D	SY100EL52ZI	SY55852U/58052U	X	X	X	X
MC100EL52DR2	SY100EL52ZI TR	SY55852U/58052U	X	X	X	X
MC100EL52DT	SY10EP52VKI ²	SY55852U/58052U	X	X	X	X
MC100EL52DTR2	SY10EP52VKI TR ²	SY55852U/58052U	X	X	X	X
MC100EL56DW	SY100EL56VZI	SY58026U/SY89853U	X	X	X	X
MC100EL56DWR2	SY100EL56VZI TR	SY58026U/SY89853U	X	X	X	X
MC100LVEL56DW	SY100EL56VZI	SY58026U/SY89853U	X	X	X	X
MC100LVEL56DWR2	SY100EL56VZI TR	SY58026U/SY89853U	X	X	X	X
MC100EL57D	SY100EL57ZI	SY58029U/SY89855U	X	X	X	X
MC100EL57DR2	SY100EL57ZI TR	SY58029U/SY89855U	X	X	X	X
MC100EL58D	SY100EL58ZI	SY89208V/SY89852U	X	X	X	
MC100EL58DR2	SY100EL58ZI TR	SY89208V/SY89852U	X	X	X	
MC100EL58DT	SY100EP58VKI ²	SY89208V/SY89852U	X	X	X	
MC100EL58DTR2	SY100EP58VKI TR ²	SY89208V/SY89852U	X	X	X	
MC100LVEL58D	SY100EP58VZI ²	SY89208V/SY89852U	X	X	X	
MC100LVEL58DR2	SY100EP58VZI TR ²	SY89208V/SY89852U	X	X	X	
MC100LVEL58DT	SY100EP58VKI ²	SY89208V/SY89852U	X	X	X	
MC100LVEL58DTR2	SY100EP58VKI TR ²	SY89208V/SY89852U	X	X	X	
MC100ELT20D	SY100ELT20VZI	SY89222L	X	X		
MC100ELT20DR2	SY100ELT20VZI TR	SY89222L	X	X		
MC100ELT20DT	SY100EPT21VKI ²	SY89222L	X	X		
MC100ELT20DTR2	SY100EPT20VKI TR ²	SY89222L	X	X		
MC100ELT21D	SY100ELT21ZI	SY89321L	X	X		
MC100ELT21DR2	SY100ELT21ZI TR	SY89321L	X	X		

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MC100ELT21DT	SY100EPT21LKI ²	SY89321L	X	X		
MC100ELT21DTR2	SY100EPT21LKI TR ²	SY89321L	X	X		
MC100ELT22D	SY100ELT22ZI	SY89222L	X	X	X	
MC100ELT22DR2	SY100ELT22ZI TR	SY89222L	X	X	X	
MC100ELT22DT	SY100EPT22VKI ²	SY89222L	X	X	X	
MC100ELT22DTR2	SY100EPT22VKI TR ²	SY89222L	X	X	X	
MC100VELT22D	SY100ELT22LZI	SY89322L	X	X	X	
MC100VELT22DR2	SY100ELT22ZI TR	SY89322L	X	X	X	
MC100VELT22DT	SY100EPT22VKI ²	SY89322L	X	X	X	
MC100VELT22DTR2	SY100EPT22VKI TR ²	SY89322L	X	X	X	
MC100ELT23D	SY100ELT23ZI	SY89223L	X	X	X	
MC100ELT23DR2	SY100ELT23ZI TR	SY89223L	X	X	X	
MC100ELT23DT	SY100EPT23VKI ²	SY89223L	X	X	X	
MC100ELT23DTR2	SY100EPT23VKI TR ²	SY89223L	X	X	X	
MC100VELT23D	SY100ELT23LZI	SY89321L	X	X		
MC100VELT23DR2	SY100ELT23LZI TR	SY89321L	X	X		
MC100VELT23DT	SY100EPT23LKI ²	SY89321L	X	X		
MC100VELT23DTR2	SY100EPT23LKI TR ²	SY89321L	X	X		
NB100ELT23LD	SY100ELT23LZI	SY89321L	X	X	X	
NB100ELT23LDR2	SY100ELT23LZI TR	SY89321L	X	X	X	
MC100ELT28D	SY100ELT28ZI	SY89328L	X	X	X	
MC100ELT28DR2	SY100ELT28ZI TR	SY89328L	X	X	X	
MC100ELT28DT	SY100ELT28KI	SY89328L	X	X	X	
MC100ELT28DTR2	SY100ELT28KI TR	SY89328L	X	X	X	
MC100EP11DT	SY100EP11UKI	SY89311U/SY89851U	X	X		
MC100EP11DTR2	SY100EP11UKI TR	SY89311U/SY89851U	X	X		
MC100EP11D	SY100EP11UZI	SY89311U/SY89851U	X	X		
MC100EP11DR2	SY100EP11UZI TR	SY89311U/SY89851U	X	X		
MC100LVEP11DT	SY100EP11UKI	SY89311U/SY89851U	X	X	X	
MC100LVEP11DTR2	SY100EP11UKI TR	SY89311U/SY89851U	X	X	X	
MC100LVEP11D	SY100EP11UZI	SY89311U/SY89851U	X	X	X	
MC100LVEP11DR2	SY100EP11UZI TR	SY89311U/SY89851U	X	X	X	
MC100EP14DT	SY100EP14UK4I	SY89831U/SY58035U	X	X	X	X
MC100EP14DTR2	SY100EP14UK4I TR	SY89831U/SY58035U	X	X	X	X
MC100LVEP14DT	SY100EP14UK4I	SY89831U/SY58035U	X	X	X	X
MC100LVEP14DTR2	SY100EP14UK4I TR	SY89831U/SY58035U	X	X	X	X
MC100EP16DT	SY88927VKC	SY89316V		X		
MC100EP16DTR2	SY88927VKC TR	SY89316V		X		
MC100EP16D	SY88927VZC	SY89316V		X		
MC100EP16DR2	SY88927VZC TR	SY89316V		X		
MC100EP16VSDT	SY100EP16VSKI	SY89307V		X		
MC100EP16VSDTR2	SY100EP16VSKI TR	SY89307V		X		

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MC100EPT20DT	SY100EPT20VKI	SY89834U	X	X		
MC100EPT20DTR2	SY100EPT20VKI TR	SY89834U	X	X		
MC100EPT20D	SY100EPT20VZI	SY89834U	X	X		
MC100EPT20DR2	SY100EPT20VZI TR	SY89834U	X	X		
MC100EPT21DT	SY100EPT21LKI	SY89321L	X	X		
MC100EPT21DTR2	SY100EPT21LKI TR	SY89321L	X	X		
MC100EPT21D	SY100EPT21LZI	SY89321L	X	X		
MC100EPT21DR2	SY100EPT21LZI TR	SY89321L	X	X		
MC100EPT22DT	SY100EPT22VKI	SY89322L	X	X		
MC100EPT22DTR2	SY100EPT22VKI TR	SY89322L	X	X		
MC100EPT22D	SY100EPT22VZI	SY89322L	X	X		
MC100EPT22DR2	SY100EPT22VZI TR	SY89322L	X	X		
MC100EPT23DT	SY100EPT23LKI	SY89323L	X	X		
MC100EPT23DTR2	SY100EPT23LKI TR	SY89323L	X	X		
MC100EPT23D	SY100EPT23LZI	SY89323L	X	X		
MC100EPT23DR2	SY100EPT23LZI TR	SY89323L	X	X		
MC100EP32DT	SY100EP32VKI	SY89312V/SY89871U	X	X	X	
MC100EP32DTR2	SY100EP32VKI TR	SY89312V/SY89871U	X	X	X	
MC100EP32D	SY100EP32VZI	SY89312V/SY89871U	X	X	X	
MC100EP32DR2	SY100EP32VZI TR	SY89312V/SY89871U	X	X	X	
MC100EP33DT	SY100EP33VKI	SY89313V	X	X	X	
MC100EP33DTR2	SY100EP33VKI TR	SY89313V	X	X	X	
MC100EP33D	SY100EP33VZI	SY89313V	X	X	X	
MC100EP33DR2	SY100EP33VZI TR	SY89313V	X	X	X	
MC100EP52DT	SY10EP52VKI ²	SY55852U/58052U	X	X	X	X
MC100EP52DTR2	SY10EP52VKI TR ²	SY55852U/58052U	X	X	X	X
MC100EP52D	SY10EP52VZI ²	SY55852U/58052U	X	X	X	X
MC100EP52DR2	SY10EP52VZI TR ²	SY55852U/58052U	X	X	X	X
MC100EP56DT	SY100EP56VK4I	SY58026U/SY89853U	X	X	X	X
MC100EP56DTR2	SY100EP56VK4I TR	SY58026U/SY89853U	X	X	X	X
MC100EP56DW	SY100EP56VZI	SY58026U/SY89853U	X	X	X	X
MC100EP56DWR2	SY100EP56VZI TR	SY58026U/SY89853U	X	X	X	X
MC100EP57DT	SY100EP57VK4I	SY58029U/SY89855U	X	X	X	X
MC100EP57DTR2	SY100EP57VK4I TR	SY58029U/SY89855U	X	X	X	X
MC100EP57DW	SY100EL57VZI ²	SY58029U/SY89855U	X	X	X	X
MC100EP57DWR2	SY100EL57VZI TR ²	SY58029U/SY89855U	X	X	X	X
MC100EP58DT	SY100EP58VKI	SY89208V/SY89852U	X	X		
MC100EP58DTR2	SY100EP58VKI TR	SY89208V/SY89852U	X	X		
MC100EP58D	SY10058VZI	SY89208V/SY89852U	X	X		
MC100EP58DR2	SY10058VZI TR	SY89208V/SY89852U	X	X		
MC100EP111FA	SY100EP111UTI	SY89112U	X	X		
MC100EP111FAR2	SY100EP111UTI TR	SY89112U	X	X		

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MC100LVEP111FA	SY100EP111UTI	SY89112U	X	X	X	X
MC100LVEP111FAR2	SY100EP111UTI TR	SY89112U	X	X	X	X
MC100EP195FA	SY100EP195VTI	SY89295UMI	X	X		
MC100EP195FAR2	SY100EP195VTI TR	SY89295UMI TR	X	X		
MC100EP196FA	SY100EP196VTI	SY89296UMI	X	X		
MC100EP196FAR2	SY100EP196VTI TR	SY89296UMI TR	X	X		
MC10E111FN	SY10E111AEJC	SY89112U	X	X	X	X
MC10E111FNR2	SY10E111AEJC TR	SY89112U	X	X	X	X
MC10LVE111FN	SY10E111LEJC	SY89112U	X	X	X	X
MC10LVE111FNR2	SY10E111LEJC TR	SY89112U	X	X	X	X
MC10E195FN	SY10E195JC	SY89295U	X	X	X	X
MC10E195FNR2	SY10E195JC TR	SY89295U	X	X	X	X
MC10E196FN	SY10E196JC	SY89296U	X	X	X	
MC10E196FNR2	SY10E196JC TR	SY89296U	X	X	X	
MC10EL11D	SY10EL11VZI	SY89311U/SY89851U	X	X	X	
MC10EL11DR2	SY10EL11VZI TR	SY89311U/SY89851U	X	X	X	
MC10EL11DT	SY10EP11UKI ²	SY89311U/SY89851U	X	X	X	
MC10EL11DTR2	SY10EP11UKI TR ²	SY89311U/SY89851U	X	X	X	
MC10EL12DT	NA	SY89311U/SY89851U	X	X	X	
MC10EL12DTR2	NA	SY89311U/SY89851U	X	X	X	
MC10EL12D	SY10EL12ZI	SY89311U/SY89851U	X	X	X	
MC10EL12DR2	SY10EL12ZI TR	SY89311U/SY89851U	X	X	X	
MC10EL15D	SY10EL15ZI	SY100EP15V/SY89831U	X	X	X	X
MC10EL15DR2	SY10EL15ZI TR	SY100EP15V/SY89831U	X	X	X	X
MC10EL16D	SY10EL16VZI	SY58601U/SY89206V	X	X	X	X
MC10EL16DR2	SY10EL16VZI TR	SY58601U/SY89206V	X	X	X	X
MC10EL16DT	SY10EL16VKI	SY58601U/SY89206V	X	X	X	X
MC10EL16DTR2	SY10EL16VKI TR	SY58601U/SY89206V	X	X	X	X
MC10EL31DT	SY10EP31VKI ²	SY58601U/SY89206V	X	X	X	X
MC10EL31DTR2	SY10EP31VKI TR ²	SY58601U/SY89206V	X	X	X	X
MC10EL31D	SY10EL31ZI	SY58601U/SY89206V	X	X	X	X
MC10EL31DR2	SY10EL31ZI TR	SY58601U/SY89206V	X	X	X	X
MC10EL32DT	SY10EP32VKI ²	SY89312V/SY89871U	X	X	X	
MC10EL32DTR2	SY10EP32VKI TR ²	SY89312V/SY89871U	X	X	X	
MC10EL32D	SY10EP32VZI	SY89312V/SY89871U	X	X	X	
MC10EL32DR2	SY10EP32VZI TR	SY89312V/SY89871U	X	X	X	
MC10EL33DT	SY10EP33VKI ²	SY89312V/SY89871U	X	X		
MC10EL33DTR2	SY10EP33VKI TR ²	SY89312V/SY89871U	X	X		
MC10EL33D	SY10EL33ZI	SY89312V/SY89871U	X	X		
MC10EL33DR2	SY10EL33ZI TR	SY89312V/SY89871U	X	X		
MC10EL34D	SY10EL34ZI	SY89871U/SY89874U	X	X	X	X
MC10EL34DR2	SY10EL34ZI TR	SY89871U/SY89874U	X	X	X	X

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MC10EL52DTR2	SY10EP52VKI TR ²	SY55852U/58052U	X	X	X	X
MC10EL52D	SY10EL52ZI	SY55852U/58052U	X	X	X	X
MC10EL52DR2	SY10EL52ZI TR	SY55852U/58052U	X	X	X	X
MC10EL57D	SY10EL57ZI	SY58029U/SY89855U	X	X	X	X
MC10EL57DR2	SY10EL57ZI TR	SY58029U/SY89855U	X	X	X	X
MC10EL58DT	SY10EP58VKI ²	SY89208V/SY89852U	X	X	X	
MC10EL58DTR2	SY10EP58VKI TR ²	SY89208V/SY89852U	X	X	X	
MC10EL58D	SY10EL58ZI	SY89208V/SY89852U	X	X	X	
MC10EL58DR2	SY10EL58ZI TR	SY89208V/SY89852U	X	X	X	
MC10ELT20DT	SY10EPT20VKI ²	SY89222L	X	X		
MC10ELT20DTR2	SY10EPT20VKI TR ²	SY89222L	X	X		
MC10ELT20D	SY10ELT20VZI	SY89222L	X	X		
MC10ELT20DR2	SY10ELT20VZI TR	SY89222L	X	X		
MC10ELT21DT	NA	SY89321L	X	X		
MC10ELT21DTR2	NA	SY89321L	X	X		
MC10ELT21D	SY10ELT21ZI	SY89321L	X	X		
MC10ELT21DR2	SY10ELT21ZI TR	SY89321L	X	X		
MC10ELT22DT	NA	SY89222L	X	X		
MC10ELT22DTR2	NA	SY89222L	X	X		
MC10ELT22D	SY10ELT22ZI	SY89222L	X	X		
MC10ELT22DR2	SY10ELT22ZI TR	SY89222L	X	X		
MC10ELT28D	SY10ELT28ZI	SY89328L	X	X		
MC10ELT28DR2	SY10ELT28ZI TR	SY89328L	X	X		
MC10ELT28DT	SY10ELT28KI	SY89328L	X	X		
MC10EP11DT	SY10EP11UKI	SY89311U/SY89851U	X	X	X	
MC10EP11DTR2	SY10EP11UKI TR	SY89311U/SY89851U	X	X	X	
MC10EP11D	SY10EP11UZI	SY89311U/SY89851U	X	X	X	
MC10EP11DR2	SY10EP11UZI TR	SY89311U/SY89851U	X	X	X	
MC10LVEP11DT	SY10EP11UKI	SY89311U/SY89851U	X	X	X	
MC10LVEP11DTR2	SY10EP11UKI TR	SY89311U/SY89851U	X	X	X	
MC10LVEP11D	SY10EP11UZI	SY89311U/SY89851U	X	X	X	
MC10LVEP11DR2	SY10EP11UZI TR	SY89311U/SY89851U	X	X	X	
MC10EP16DT	SY10EP16VKI	SY89316V		X		
MC10EP16DTR2	SY10EP16VKI TR	SY89316V		X		
MC10EP16D	SY10EP16VZI	SY89316V		X		
MC10EP16DR2	SY10EP16VZI TR	SY89316V		X		
MC10EPT20DT	SY10EPT20VKI	SY89834U	X	X		
MC10EPT20DTR2	SY10EPT20VKI TR	SY89834U	X	X		
MC10EPT20D	SY10EPT20VZI	SY89834U	X	X		
MC10EPT20DR2	SY10EPT20VZI TR	SY89834U	X	X		
MC10EP32DT	SY10EP32VKI	SY89312V/SY89871U	X	X	X	

Notes:

1. Pin-for-pin, plug-in replacement: electrical specifications and pinout are 100% compatible.
2. Pin-for-pin, functional replacement: Micrel replacements are pin-for-pin compatible, DC and AC parameters are compatible for most applications, but may not be 100% functionally compatible for all applications.



On Semiconductor	Micrel (pin-for-pin) Plug-In Replacement ¹	Micrel Improved Alternative	Superior Jitter	Smallest Footprint	Better AC Performance	Internal Termination
MC10EP32DTR2	SY10EP32VKI TR	SY89312V/SY89871U	X	X	X	
MC10EP32D	SY10EP32VZI	SY89312V/SY89871U	X	X	X	
MC10EP32DR2	SY10EP32VZI TR	SY89312V/SY89871U	X	X	X	
MC10EP33DT	SY10EP33VKI	SY89313V	X	X	X	
MC10EP33DTR2	SY10EP33VKI TR	SY89313V	X	X	X	
MC10EP33D	SY10EP33VZI	SY89313V	X	X	X	
MC10EP33DR2	SY10EP33VZI TR	SY89313V	X	X	X	
MC10EP52DT	SY10EP52VKI	SY55852U/58052U	X	X	X	X
MC10EP52D	SY10EP52VZI	SY55852U/58052U	X	X	X	X
MC10EP52DR2	SY10EP52VZI TR	SY55852U/58052U	X	X	X	X
MC10EP58DT	SY10EP58VKI	SY89208V/SY89852U	X	X		
MC10EP58DTR2	SY10EP58VKI TR	SY89208V/SY89852U	X	X		
MC10EP58D	SY10EP58VZI	SY89208V/SY89852U	X	X		
MC10EP58DR2	SY10EP58VZI TR	SY89208V/SY89852U	X	X		

Notes:

1. Pin-for-pin, plug-in replacement: electrical specifications and pinout are 100% compatible.
2. Pin-for-pin, functional replacement: Micrel replacements are pin-for-pin compatible, DC and AC parameters are compatible for most applications, but may not be 100% functionally compatible for all applications.

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