



Complete Solutions to Your Obsolescence Problems

All products are form-fit-function and pin-compatible to your current product which allows for drop-in-replacement **WITHOUT** any changes to your hardware or software system(s).

- We do not take a “reverse-Engineered” approach to obsolescence drop-in-replacement. Our solutions are new unique designs that are Engineered with the latest available FPGA technology.
- We don't charge NRE (Non-recurring Engineering) fees for proposals of drop-in-replacement DIR solutions.
- Each of our Engineering staff have full product management life-cycle responsibility, from inception to customer support, for our products.
- Our Products are typically designed from readily-available User's Manuals for the obsolete product. We design the DIR product from the “interface-in” with no reference to the existing technology.
- We guarantee support on all of our products for at least 15 years. We provide full support for all of our products. We provide solutions on an on-going basis.
- We will never obsolete a product without having a drop-in replacement available for our customers.
- Our team has provided solutions to obsolescence issues beyond those of the example products below. Please contact us with your obsolescence requirements which may be outside the realm data I/O, VME or IndustryPack platforms.

Merlin Embedded is an Engineering design and Product Manufacturer specializing in the development of drop-in replacements for obsolete products.

We take the user's manual for the obsolete product and use this as our design specification. Typically within 4-5 months we can provide an evaluation unit that begins to function as soon as it is installed in the customer's system. The customer is provided with a cable and software so that he can download the new firmware to the evaluation unit. Any errors that are found are normally corrected with firmware modifications. Merlin VME modifies the firmware and emails it to the customer. If necessary, Merlin will go onsite to assist in debugging the evaluation unit. Onsite debugging normally takes no more than 1-2 days.

The customer's obsolescence problem literally becomes our problem. Once we start work, the customer is not required to expend any further time or resource until we have the evaluation unit ready to ship. The customer's involvement is simply to spend a few days testing the evaluation unit. The new Merlin VME unit works with the existing software and cabling. No system changes are required.

There is no risk to the customer. Even in the cases where we have NRE charges, Merlin VME does not submit an invoice until the evaluation unit is completely signed off by the customer.

Merlin Embedded will guarantee support for 15 years. We will never obsolete a product without having a drop-in replacement available for our customers.

In December 2009 we released a line of IndustryPack modules. All of our IP modules may be configured as drop-in replacements for our competitor's products or they may be configured to take advantage of extra features that we have included.

All trademarks are the property of their respective owner. Please note that Merlin Embedded is not associated with any of the companies for whom our products are drop-in replacements.



Embedded I/O Products

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Along with Merlin's Standard VME and IndustryPack Products, the following are Drop-In-Replacements for Several other Obsolete Products

VME Products

Competitor's Model No.	Merlin Embedded Model Replacement
AVME9210	MVME9433
AVME9215	MVME9433
AVME9320	MVME9424
AVME9321	MVME9424
AVME9420	MVME9420
AVME9430	MVME9430
AVME9440	MVME9470
AVME9470	MVME9470
AVME9510	MVME9510
IP-ENCODER6	MVME9460
MPCC-1	MVME 9850
VIP616	MIP-VMEC
VMICVME-4150	MVME-4150

PMC Products

Competitor's Model No.	Merlin Embedded Model Replacement
PMC230	MPMC-DAC
PMC330	MPMC-ADC
PMC421	MPMC-SERIAL8
PMC422	MPMC-SERIAL8
PMC423	MPMC-SERIAL16
PMC520/521	MPMC-SERIAL8
PMC618	MPMC-OFIB-LC
PMC661J	MPMC-ETHR-RJ45
PMC663	MPMC-ETHR-RJ45
PMC675	MPMC-ETHR-RJ45
PMC730	MPMC-MULTIFUNCT-O

IP Digital I/O Products

Competitor's Model No.	Merlin Embedded Model Replacement
IP400	MIPMOSFET
IP405	MIPMOSFET
IP408	MIPMOSFET
IP409	MIPTTL
IP440A	MIPDISO
IP445	MIPDISO
IP470	MIPTTL
IP482	MIPTTL
IP483	MIPTTL
IP484	MIPTTL
IP500	MIP-QUAD
IP501	MIP-QUAD
IP502	MIP-QUAD
IP-DIGITAL482	MIPTTL
IP-DIO48	MIPTTL
IP-DRIVER40	MIPMOSFET
IP-DUALPIT2	MIPTTL
IP-NVRAM	MIP-NVRAM
IP-UD	MIPTTL
IP-UD-D	MIPTTL
IP-UD-E	MIPTTL
IP-UD-E-48	MIPTTL
IP-UD-ID	MIPTTL
IP-UD-IE	MIPTTL
IP-Unidig-x-x	MIPTTL
IP-WATCHDOG	MIP-WDT

IP Analog I/O Products

Competitor's Model No.	Merlin Embedded Model Replacement
ARINC429	MIP-429
IP16ADC	MIPADC16M
IP220	MIP-DAC16
IP231	MIP-DAC16
IP235	MIP-DAC8
IP236	MIP-DAC8
IP320	MIPADC40M
IP330	MIPADC32M
IP340	MIPADC16S
IP482	MIP-PIT
IP483	MIP-PIT
IP484	MIP-PIT
IP511	MIP-SERISO
IP520	MIP-OCTAL
IP521	MIP-OCTAL
IP-16ADSS	MIP-AD16SS
IP-ADIO	MIP-ADIO
IP-DAC	MIP-SBS-DAC
IP-DenseDAC	MIP-DenseDAC
IP-DIGITAL482	MIP-PIT
IP-DUALPIT2	MIP-PIT
IP-OCTAL232	MIP-OCTAL
IP-OCTAL422	MIP-OCTAL
IP-PREC-AD	MP-PREC-ADC
IP-Thermistor	MIP-THERM
IP-UL-ADC40	MIPADC40M
VIP-616	MIP-VMEC