Product Tech Note

Long-Life Support Through 2015 and Beyond For

The Most Powerful PC/104 ISA Bus Computer in Existence!

ADL Embedded Solutions - PC/104+ ADL855PC SBC…

ADL Embedded Solutions Inc., a leading provider of customizable, high-performance embedded solutions for demanding thermal and rugged environments, has announced long-term perspectives for 855 chipset-based SBC products following the Intel® discontinuance of its 855GME chipset family. These well-established SBCs are extremely important for industrial applications because they are the last platforms that support the 16-bit ISA bus with DMA. ADL Embedded Solutions has two solutions on the market that use the 855 chipset: the "ADL855PC" PC/104-Plus board and the 3.5-inch "ADL855HD" board. These SBCs are based on Intel Pentium M processors with clock rates of up to 1.8 GHz. Click here for Datasheet.

Migrate On Your Own Schedule - Leverage your existing PC/104 peripheral base alongside advanced PCI-104 products!
For system implementers that need to support their mission critical hardware to reach EOL or NPI, the ADL855 CPU solution brings Gigahertz plus computational power to your application. With the lowest latency and broadest level of ISA Bus support the ADL855 supports the widest range of ISA Bus 104-pin PC/104 peripherals, full compatibility with all 120-Pin PC/104-plus and PCI/104 peripherals.   The 855 ISA Full Monty – Real 16-bit transactions instead of back-to-back 8-bit transfers – DMA Supported – Intel Architecture.

We Can Read Your Mind - The 855 is the last Intel CPU to still do ISA Memory access in the C800:0000 to D000:FFFF memory space...
The extra speed of the 1.8GHz CPU supports "on-target" development and operating system migration. The low-latency aspects of the mono-threaded processor, and direct support for real-mode operating systems offer superior latency performance when compared to protected mode operating systems, allowing the CPU to perform more functions that would otherwise be handled by hardware.

In this context, you replace hardware with CPU power – which is essentially free.
Revamped BOOT support – our legacy 855 product was recently upgraded with Atom ADLS15PC (Z510/Z530) style boot support, bringing enhanced boot order and support modes to legacy designs. These options support in-place migration from 16-bit DOS to 32-bit Linux, allowing an OS-level "tock" cycle to follow the "tick" of using the 855 in your design.

ADL855PC Long Life Support Through 2015

Long Term Availability Made Possible by Forward-Looking Material Planning for Inventory...
855 Chipset: On the basis of its current material planning, ADL Embedded Solutions guarantees product availability for the 855GME chipset and the related support until 2015, thus providing sufficient time for customers to transition from the 16-bit ISA bus to newer interconnect technologies.

Pentium-M and Celeron-M Processors: While none of the currently used Pentium-M or Celeron-M processors have been EOL'd by Intel yet, ADL Embedded Solutions can draw from a large inventory of Pentium-M 745 1.8GHz and Celeron-M 373 1.0GHz processors to match the expected availability of the 855 chipset through 2015 and beyond.

Additionally, Three Other Processors:
Celeron-M at 600MHz and 1.5GHz, and
Pentium-M at 1.4GHz will continue to be
available until Intel announces EOL last time
buys for these processors, at which time ADL
Embedded Solutions will ensure sufficient
quantities to meet customer forecasts.
According to JC Ramirez, ADL Embedded
Solutions Product Manager, "ADL Embedded
Solutions can draw from a large inventory of
Pentium M and 855GME chipsets for small and
larger type projects. This offers the reliability
and flexibility that is required in order to be
able to meet the needs of industrial users with
high-quality, recently manufactured products."

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