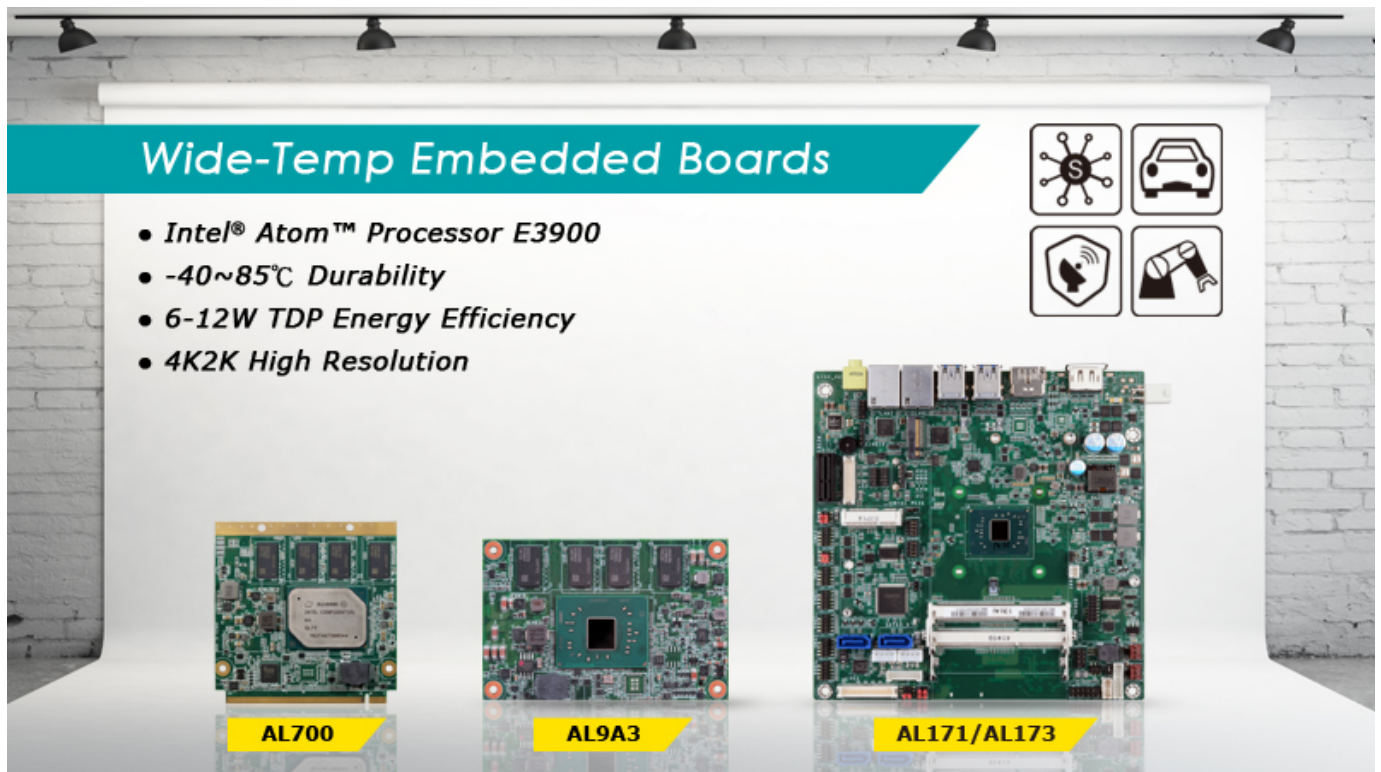


## Wide-Temp Rugged Embedded Boards Perform 24/7 in Extreme Environments (-40~85°C)



DFI has launched new industrial motherboards powered by the latest Intel<sup>®</sup> Atom<sup>™</sup> processor E3900 family (code name Apollo Lake). For the new series boards, DFI has created a wide array of rugged and reliable products including Mini-ITX, SBC, Pico-ITX, COM Express, Qseven R2.1, and SMARC R2.0. These boards deliver higher computing capabilities and stunning graphics performance at economically low-power consumption that average at only 9 watts TDP. Moreover, they support the extended temperature range from -40°C up to +85°C, which provide appropriate industrial hardware in embedded applications such as transportation, automation, energy, military, or aerospace.

### Comparison

|                      | DFI Embedded Boards                            |   |
|----------------------|--|---|
|                      | Intel <sup>®</sup> Atom <sup>™</sup> E3900     | Intel <sup>®</sup> Pentium <sup>®</sup> /Celeron <sup>®</sup> N3000 |
| Process / Package    | 14nm, BGA 1296                                 | 14nm, BGA 1170  |
| Graphics Performance | Gen 9<br>Up to 18 EUs                          | Gen 8<br>Up to 16 EUs   |
| Display Resolution   | 3 Independent Displays<br>DP: 4096x2160 @ 60Hz | 3 Independent Displays<br>DP: 3840x2160 @ 30Hz                      |
| Memory               | DDR3L @ 1867 MHz<br>ECC                        | DDR3L @ 1600 MHz<br>Non-ECC   |
| Storage and I/O      | SATA 3.0<br>Up to 6 USB 3.0, 2 USB 2.0         | SATA 3.0<br>Up to 4 USB 3.0, 1 USB 2.0                              |
| Processor TDP        | 6-12W  | 4-6W  |
| Operating Temp.      | -40~85°C                                       | 0~60°C  |

## Key Features



**Wide Operating Temperature**

Equipped with industrial-grade components, these boards support a wide temperature range of -40 to 85°C durable for any industrial and harsh environments.



**4K High Resolution Display**

The new series powered by enhanced graphic engine supports 4K high resolution (DP: 4096x2304 @ 60Hz) and three independent displays for multimedia solution.



**Flexible & New Design**

New design on embedded boards: proprietary EI/O extension interface to provide flexibility; up-to-date M.2 interface for high-speed storage; advanced thermal solution that makes good system integration.

## DFI's Embedded Boards (in Availability Now):



AL171/AL173 (Mini-ITX)

[DATASHEET](#)

[FREE QUOTE](#)



AL9A3 (COMe Mini)

[DATASHEET](#)

[FREE QUOTE](#)



AL700 (Qseven)

[DATASHEET](#)

[FREE QUOTE](#)

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## Contact Us

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More Information?  
 Send us your inquiry

For more information, please contact your DFI<sup>®</sup> regional sales representative or send us an email: [inquiry@dfi.com](mailto:inquiry@dfi.com)

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## About DFI

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Established in 1981, DFI<sup>®</sup> is a leading supplier of high-performance computing technology worldwide. With more than 35 years of experience, DFI<sup>®</sup> focuses on innovative design and manufacture of leading-edge board and system level products for embedded applications requiring strict revision control and long life availability. DFI uses the latest technology platforms and manufacturing techniques to produce cost-effective products for use in medical diagnostic & imaging, ATM/POS, industrial control, kiosk, security & surveillance, digital signage, gaming, and other embedded applications. For more information, please visit us at: [www.dfi.com](http://www.dfi.com)

