Wide Temperature Solutions



Solution for Wide Temperature Embedded Computing

Applications of embedded computing systems continue to improve the quality and convenience of our lives. As world population increases, putting greater demands on resources, the need for automation and compute capability in remote regions will grow. To address the requirement for operating in extreme environments, computer platforms must follow design methodologies for wide temperature range operation. In addition, testing and product qualification must follow more stringent criteria to assure continuous operation. As the core of any embedded system, the CPU board plays perhaps the most critical role and therefore requires careful design and validation for wide temperature production.

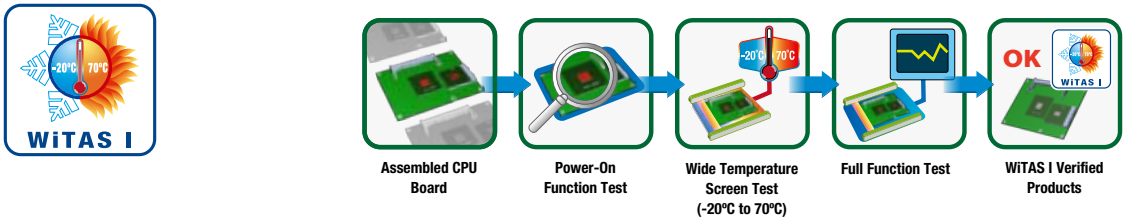
AAEON has designed and manufactured quality embedded products for more than a decade. The accumulated experience in all aspects of the embedded electronics market gives AAEON a strong position in the development of wide temperature CPU boards and systems. AAEON's **W**ide **T**emperature **A**ssurance **S**ervices (**WiTAS**) produces boards in two temperature range classes:

-20°C to 70°C = WiTAS1

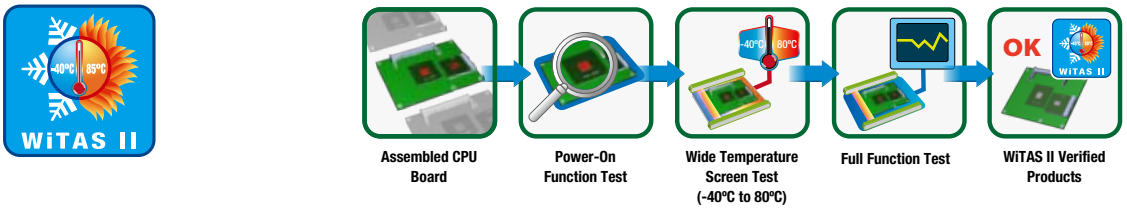
-40°C to 80°C = WiTAS2

Processes for WiTAS Production

WiTAS I Production



WiTAS II Production



Application

Applications for wide temperature CPU boards can be found in most industries and markets:

- **Transportation:** Train, Ship, Airplane, Traffic Surveillance system, etc.
- **Factory Automation:** Power Station, Steel Manufacturer.
- **Military:** Field Electronic Devices, Controller
- **Energy:** Windmill Controller, Solar Energy Controller.
- **Environmental:** Climate, Water, Air,
- **Anti-dust Fan Less Application:** Medical, Chemical, Pharmacy Factory, etc.

