



New ATCA Controller - Degree Controls is pleased to announce the completion of the industry's first, ATCA compliant, dual IPMI bus fan tray controller. This is a flexible, reprogrammable, feature-rich thermal controller incorporate functionalities Degree Controls' customers appreciate. This functionality includes, but is not limited to:

- Real time, IPMI based selection of several fan control modes for synchronized, closed loop RPM control of fans, using any combination of inlet/exhaust or blade sensed temperatures.
- Real time, IPMI based reconfiguration of alarm thresholds and fan control curve set points, and access to fan speeds, PWM values, temperature and CLEI code information.
- Private, I2C based communication bus between fan trays, for those chassis containing multiple fan trays. This enables inter-fan tray alarm transmission, RPM synchronization (or CFM synchronization where axial and radial fans are employed in push-pull fan tray arrangement).
- Fire response functionality to either reduce or increase fan speed, depending on chassis architecture needs.
- Multiple filter clog and maintenance schemes.
- Both fan fail prediction, and fan fail monitoring, to ensure fan tray replacement occurs as fan performance begins to degrade, NOT when a fan fails completely.
- Fault tolerant design, so that any logic level failure (communication, thermistor, and processor) causes fans to operate at fault speed.
- Currently working on firmware reprogrammability to allow customers to upload new fan control firmware in the field, a feature used if new blades are developed and installed with higher thermal dissipation, or as Degree Controls enhances or adapts to changes in the ATCA protocols.

These boards are designed to operate with Degree Controls' standard voltage regulator circuit where a wide voltage input (36-75 VDC) is regulated to 48 VDC nominal, for those systems requiring it. This portion may be integrated into the controller card, as many customers request for the cost-optimized production solution.

ATCA provides a comprehensive protocol – don't reinvent the wheel, check out our latest offerings and leverage the hundreds of control solutions we have developed for the telecom/computing industry.