**Sensors**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | | **Temperature Range** | **Accuracy** |
| Thermocouple | K-Type – RdF Corporations | -184°C to +700°C | 2.2°C or 0.75% |
| T-Type – Thermo Sensors | -50° to 200°C | 0.5°C or 0.75% |
| RTD Temperature sensor | HoneyWell | -55 °C to 150°C | ±0.5°C or ±0.2% |
| Auxitrol Weston | -55°C to +322°C | ± 0.50°C |
| Thermistor | Semitec - 502NT-4-R025H395 | -50°C to 300°C | 1% |
| Amphenol - DC95G503VN | -80°C to 150°C | ±0.1°C |

Microcontroller

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Temperature range** | **Operating Voltage** | **ADC** |
| Freescale Semiconductor - MPC5554 – 32-bit | –40° C to 125° C | 1.5 V ± 10% | 12-bit |
| Maxim Integrated MAXQ7670A – 16-bit | -40°C to +125°C | 2.5V | 12-bit |
| Vorago Technologies VA41620 – 32-bit | -55 to 125℃ | 3.3 +/- 0.33V | 12-bit |
| Atmel SAM3X8E – 32-bit | -55°C to 105°C | 1.62V | 12-bit |
| Microchip ATmegaS64M1 – 8-bit | -55 °C to +125 °C | 3.3V | 10-bit |