# Product Details

RTP offers the most hardware configurations to meet your desired SIL level. With our intuitive user interface, any redundant hardware configuration can be setup with only a few mouse clicks. Redundancy is transparent to the designer and end user.

RTP provides a three-year warranty that ensures unmatched security. RTP systems have passed rigorous Nuclear 1E-requirements and conform to the highest quality standards in the process control industry.

RTP NetSuite is provided as an unrestricted site license with free software upgrades for a one-time registration fee, and with no annual maintenance fees.

RTP Corp assists cost containment in a variety of ways:

- Hardware acquisition costs are contained through our highly efficient manufacturing process
- Software is sold as a one time site license with no limits on the number of installs, tags, applications, or controllers
- Ease of programming using the same IEC 61131 compliant tools
- Using RTP for your safety and plant control system means your engineering and maintenance staff need only learn one system, resulting in lower training costs.
- Each I/O chassis provides mounting space for up to 18 I/O cards based on Chassis Processor redundancy and power supply redundancy.

## RTP 3000

The 3000 is approved for SIL-1 to SIL-3 applications. It can be used as a stand-alone safety controller, as a distributed control system for critical applications, or both functions can be combined into a single 3000 controller. The 3000 uses voting routines to ensure the process is protected and - equally important - the 99.9999% (6 NINES) availability insures that expensive downtime is eliminated. I/O redundancy can be achieved on a point-by-point basis. The integrity and availability of each input and output device can be configured as required by the application.

- TUV approved
- Is capable of both control and safety
- One 3000 controller can be applied to control applications while an identical 3000 controller is applied for safety applications
- Triplicate and dual redundant configurations provide a SIL-3 safety rating
- Simplex configuration provides a SIL-2 safety rating
- Controllers communicate over a common peer network to a common suite of host applications
- Redundant or triplicate controllers can be housed separately to ensure survivability in a catastrophe

## NetSuite Software

- RTP NetSuite software operates with any 3000 system and has fault-tolerant redundancy built in for every possible configuration. It can create and run the complex, high-speed algorithms for a fraction of the cost of other systems.
- Every element is designed for redundancy eliminating the cost and time required to modify the program.
- Downloading a control program automatically transfers the image to all redundant controllers, eliminating the requirements for multiple downloads and any possible associated errors

View and download the NetSuite datasheet

## RTP Data Sheets

- 3000 Critical Control and Safety System
- Node Processor (3000/02)
- Modbus TCP/IP Communications Card (3000/04)
- 12-Channel Supervised Digital Input Card (3001/01)
- 12-Channel Isolated Relay Output Card (3003/00)
- 4-Channel Isolated Analog Output Card (3004/00)
- 8-Channel Digital Output Card (3005/03)

- 16-Channel AC Digital Output Card (3013/00)
- 32-Channel Single-Ended Analog/Digital Input Card (3015/00)
- 16-Channel Hart Card (3018/00)
- Modbus Serial Communications Card (3019/00)
- 2-Channel Isolated Servo Card (3020/00)
- 16-Channel Analog Output Card (3021/00)
- 20-Channel Input/10-Channel Digital Output Card (3023/00)

- [8-Channel Isolated Supervised Digital Output Card (3005/08)](#)
- [24-Channel Digital Output Card (3006/10)](#)
- [8-Channel Thermocouple Card (3007/00)](#)
- [8-Channel Isolated Low-Level Analog Input Card (3007/01)](#)
- [8-Channel Isolated High-Level Analog Input Card (3007/02)](#)
- [8-Channel RTD Card (3007/04)](#)
- [24-Channel Relay Output Card (3008/00)](#)

- [96-Channel High Density Digital Input Card (3024/00)](#)
- [96-Channel High Density Digital Output Card (3025/00)](#)
- [32-Channel Single-Ended Analog/Digital Input Card (3026/00)](#)
- [16-Channel Fault Detecting Digital Output Card (3028/00)](#)
- [24-Channel Fault Detecting Digital Output Card (3028/00)](#)
- [8-Channel Counter Card (3029/00)](#)
- [RTP Termination Modules (3099/XY)](#)

## Setup Examples

- [TMR System Setup](#)
- [NetArrays Project Program Development](#)
- [Thermocouple Card Configuration](#)
- [NetArrays Signal Validation](#)
- [ModBus TCP Card Configuration](#)

- [Redundant Alarm Montioring Configuration](#)
- [RTPView Project Program](#)
- [Project Tag Database Setup](#)
- [RTPOPC Server Configuration](#)