

The manufacturer  
may use the marks:



**Reports:**

RTP 1103060 R003  
IEC 61508 Functional Safety  
Assessment Report V1 R1  
RTP 1103060 R004 Security  
Assessment Report V1 R1

**Validity:**

This assessment is valid for  
RTP3000 Dual, Triple and  
Quad systems with Node  
Processor 3000/02,  
Firmware A4.36 or later.

This assessment is valid until  
September 1, 2014.

Revision 1.1 August 12, 2011



# Certificate / Certificat Zertifikat / 合格証

RTP 1103060 C001

*exida* hereby confirms that the:

**RTP 3000**

Manufactured by:

**RTP Corporation  
Pompano Beach, FL USA**

Has been assessed per the relevant requirements of:

**IEC 61508: 2010 Parts 1-7**

and meets requirements providing a level of integrity to:

**IEC 61508: Systematic Integrity-SIL 3 Capable**

**Random Integrity: Type B Element**

and

**ISASecure™ Embedded Device Security  
Assurance 2010.1**

and meets requirements providing a level of integrity to:

**Level 2**

**Safety Function:**

The RTP-3000 reads inputs, performs its programmed safety function, and generates outputs.

**Application Restrictions:**

The unit must be properly designed into a Safety Instrumented Function per the Safety Manual requirements. The unit must be operated in a network and operational environment per the Security Manual requirements.



*Michael Medloff*  
Evaluating Assessor

*David B...*  
Certifying Assessor

# Certificate / Certificat / Zertifikat / 合格証

RTP 1103060 C001

**Systematic Integrity: SIL 3 Capable**

**Random Integrity for Type B Device:**

**SIL 3 @ HFT=0**

**Security Integrity: Level 2**

RTP 3000

RTP Corporation

Pompano Beach, FL

#### SIL 3 Capability:

The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3. These are intended to achieve sufficient integrity against systematic errors of design by the manufacturer.

A Safety Instrumented Function (SIF) designed with this product must not be used at a SIL level higher than stated without "prior use" justification by end user or diverse technology redundancy in the design.

#### Security Integrity:

The product has met the requirements of EDSA-300 for Level 2.

**IEC 61508 Failure Rates in FIT\* are**

**Available from RTP Corporation**

#### SIL Verification:

The Safety Integrity Level (SIL) of an entire Safety Instrumented Function (SIF) must be verified via a calculation of  $PFD_{AVG}$  considering redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each subsystem must be checked to assure compliance with minimum hardware fault tolerance (HFT) requirements.

\* FIT = 1 failure /  $10^9$  hours



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Form	Version	Date
CFI	1.1	August 2011