



HIMax<sup>®</sup>

Manual

SAFETY  
NONSTOP



# X-CPU 01

# 1 Introduction

The present manual describes the technical characteristics of the module and its use. It provides information on how to install, start up and configure the module in SILworX.

## 1.1 Structure and Use of this Manual

The content of this manual is part of the hardware description of the HIMax programmable electronic system.

This manual is organized in the following main chapters:

- Introduction
- Safety
- Product Description
- Start-up
- Operation
- Maintenance
- Decommissioning
- Transport
- Disposal

Additionally, the following documents must be taken into account:

Name	Content	Document no.
HIMax System manual	Hardware description of the HIMax system	HI 801 001 E
HIMax Safety manual	Safety functions of the HIMax system	HI 801 003 E
HIMax Communication manual	Description of communication and protocols	HI 801 101 E
SILworX Online Help (OLH)	Instructions on how to use SILworX	-
First Steps	Introduction to SILworX	HI 801 103 E

Table 1: Additional Relevant Manuals

The latest manuals can be downloaded from the HIMA website at [www.hima.com](http://www.hima.com). The revision index on the footer can be used to compare the current version of existing manuals with the Internet edition.

## 1.2 Target Audience

This document addresses system planners, configuration engineers, programmers of automation devices and personnel authorized to implement, operate and maintain the devices and systems. Specialized knowledge of safety-related automation systems is required.

### 3.5 Product Data

Parameter	Value
Supply voltage	24 VDC, -15 %...+20 %, $r_p \leq 5$ %, SELV, PELV
Current input	1.4 A
Fuse (internal)	7.5 A
Microprocessor	PowerPC
Flash EPROM	128 MB
DDRAM, NVRAM	256 MB
Program memory for each user program	1023 kB
Data memory for variables per user program	1023 kB
Total program and data memory for all user programs	10 MB less 4 kBytes for CRCs
Data memory for retain variables	
per user program	2 kB
A total for all user programs	32 kB
Number of variables being able to trigger events	20 000
Number of events that can be stored	5000
Safety time	$\geq 20$ ms, depending on the application
Buffer for date/time	Gold capacitor
Operating temperature	0 °C...+60 °C
Storage temperature	-40 °C...+85 °C
Humidity	max. 95 % relative humidity, non-condensing
Type of protection	IP20
Dimensions (H x W x D) in mm	approx. 310 x 29.2 x 236
Weight	approx. 1.3 kg

Table 15: Product Data