



# HIPERFACE DSL® Master IP-Core

Smart Motor Sensors Software

APPLICATION SOFTWARE

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
HIPERFACE DSL® Master IP-Core	1614697

Other models and accessories → [www.sick.com/Smart\\_Motor\\_Sensors\\_Software](http://www.sick.com/Smart_Motor_Sensors_Software)

## Detailed technical data

### Features

<b>Description</b>	HIPERFACE DSL® MASTER IP Core for implementation in servo controller HIPERFACE DSL® is a rapid digital protocol for motor feedback systems that connects servo drives to SICK motor feedback encoders. For detailed information about the protocol, IP-Core, and all implementation and testing aspects, please refer to the HIPERFACE DSL® Master Integration Manual (8017595) and the HIPERFACE DSL® Master Safety Integration Manual (8017596)
<b>Product category</b>	FPGA IP-Core
<b>Version</b>	IP-Core Version 1.07
<b>Documentation</b>	HIPERFACE DSL Master Integration Manual (8017595) HIPERFACE DSL Master Safety Integration Manual (8017596)
<b>Supported products</b>	Motor feedback systems rotary HIPERFACE DSL EDS/EDM35, EKS/EKM36, EES/EEM37, EFS/EFM50, ETL70, sCon®

### System requirements

<b>Interface</b>	SPI, EMIFA or customer-specific
<b>Programming language</b>	VHDL
<b>Required FPGA resources</b>	XILINX: ± 2,400 registers, safety-oriented system ± 2,800 registers Altera: ± 3,700 logic elements, safety-oriented system ± 4,700 logic elements Lattice: ± 3,900 logic elements, safety-oriented system ± 4,500 logic elements Efinix: ± 5,000 logic elements, safety-oriented system ± 5,900 logic elements Gowin: ± 3,400 logic elements, safety-oriented system ± 3,800 logic elements
<b>Supported development environment</b>	XILINX Vivado, ALTERA Quartus, Lattice Diamond, Efinity, GOWIN FPGA Designer

### Classifications

<b>ECLASS 9.0</b>	19200610
<b>ECLASS 10.0</b>	19200610
<b>ECLASS 11.0</b>	19200610
<b>ECLASS 12.0</b>	19200610
<b>ETIM 5.0</b>	EC000809
<b>ETIM 6.0</b>	EC000809
<b>ETIM 7.0</b>	EC000809
<b>ETIM 8.0</b>	EC000809

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)