

XtrapulsEasy™ 60 V_{DC} DB

Servo drive for brushless motors

Function

Very compact and pluggable servo drive module for embedded applications

Power range

24 to 60V_{DC}: 45Arms peak

Interfaces

RS-232, CANopen® DS301, DS402
Digital and analog inputs/outputs

Sensors

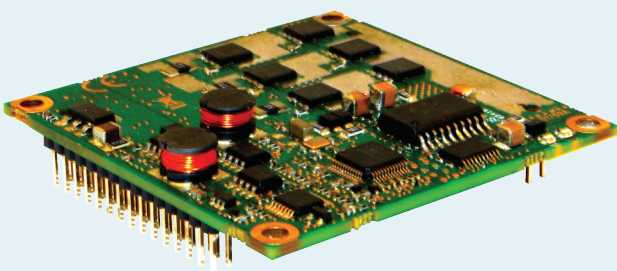
Resolver: transmitter, analog Hall (SinCos tracks)
Encoders: incremental, Hall effect
Sensorless mode

Safety

Safe Torque Off function

Tools

Project manager
Commissioning wizard
Multi-axis configuration and diagnostic



XtrapulsEasy™ 60VDC DB servo drive

The XtrapulsEasy™ 60VDC DB servo drive is a pluggable module of the XtrapulsEasy™ 60VDC range running with a voltage between 24VDC and 60VDC. This extremely compact and light product also offers an excellent resistance to vibrations. This feature makes it particularly suited for embedded applications such as automatic guided vehicles (AGV).

Electrical specifications

Drive type	Easy-ak-60-DB
	45
Peak current [Arms]	45
Rated current [Arms]	13
Input voltage	24Vdc to 60Vdc
Mechanical version	Pluggable module
Efficiency rate	> 99% at rated power

Control loops

- Digital drive for brushless motors
- Current loop 62.5µs
- Speed and position loop 500µs
- Speed, position and torque loop
- Max. speed: 25'000rpm

Feedbacks

- Transmitter resolver
- Analog Hall resolver
- Incremental encoder
- Hall effect sensor
- Analog encoder
- Sensorless mode

Communication interfaces

- RS-232 up to 115.2kbit/s baud rate
- CANopen® fieldbus

Input/output interfaces

- 4 configurable digital inputs
- 2 configurable digital outputs
- 1 configurable analog input

Resistance to vibration / shock

- Vibrations: up to 6g
- Shocks: up to 20g

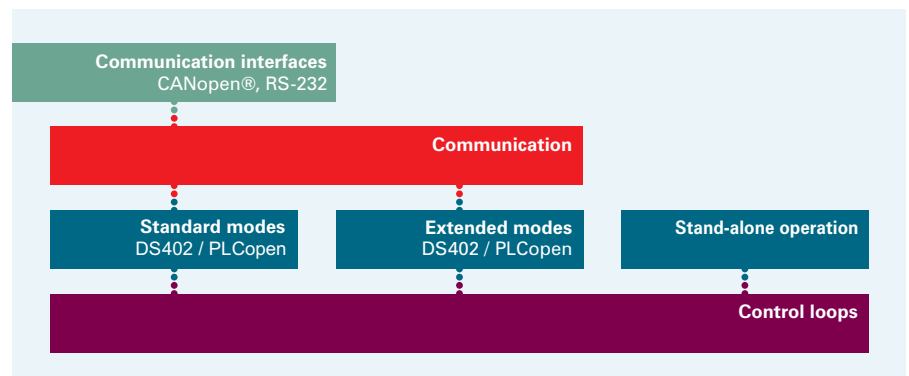
Safety

- Integrated Safe Torque Off SIL1 function

Certification



Functional architecture



Operation modes

DS402 standard modes

- Interpolated position
- Position profile
- Velocity profile
- Torque profile
- Homing

DS402 extended modes

- Sequences
- Analog speed mode
- Analog torque mode

Stand-alone operation

- Sequences
- Analog speed mode
- Analog torque mode

Multi-axis tool box

Configuration tools

- Motor and drive configuration
- Application configuration
- Interface configuration
- Auto-tuning
- Auto-phasing

Project tools

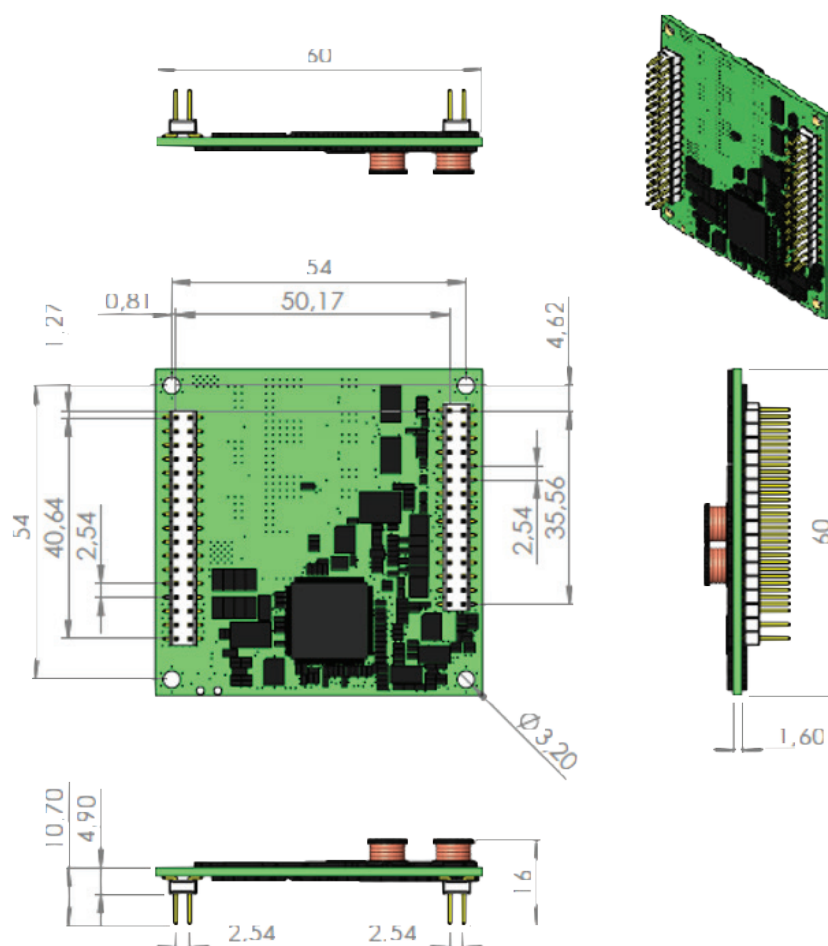
- Project creation
- Project management
- File management
- Motor library
- Multilingual software

Diagnostic tools

- Device control
- Monitoring
- Object dialog window
- Multi-axis oscilloscope

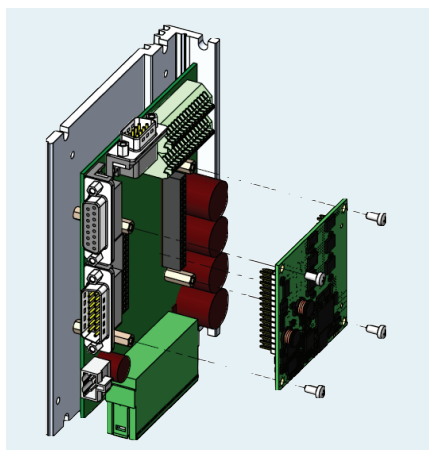
The XtrapulsEasy™ 60VDC DB servo drive can be plugged on a mother board fitted with appropriate motion control connections. This feature allows embedding extended functionalities for the control of brushless motors into a specific application board without requiring special knowledge in the field of motion control.

Dimensions [mm]



Accessory

An optional development kit is available to aid with initial drive commissioning.



Infranor® Product Range

Drives

Standard drives



Customized drives



Drive applications



Motors

Standard motors



Customized motors



Motor applications

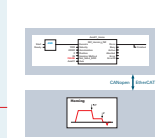


Services

Standard services



User-specific services



Global solutions



Infranor Group

Infranor creates added value for its customers by providing tailor-made motion solutions.

Based on strong working relationships, Infranor offers extensive market know-how, comprehensive engineering skills and a wide range of high-quality products leading to productivity gains and therefore to comparative advantages for its customers in their respective markets.

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