



Home> Evaluation Boards> **KIT\_XMC4X\_MOT\_GPDLV\_001**

## Overview



# KIT\_XMC4X\_MOT\_GPDLV\_001

## Description:

**Order Nr.:** KIT\_XMC4x\_MOT\_GPDLV\_001

## Summary of Features:

- Seamless connection to CPU board via ACT Satellite Connector
- 3 phase low voltage half-bridge inverter using Infineon's N-channel
- OptiMOS™3 power transistors
- Gate Driver IC (6ED003L02-F2) with over-current detection circuit (ITRIP)
- Current measurement by using single or triple shunts (amplified)
- Single side assembly of all parts
- Position sensing via
  - Inductive resolver interface using delta-sigma modulator and pattern generator for resolver excitation
  - Hall sensor interface
- Power jack for external 24V supply
- Power supply generation:
  - Switch mode power supply for 5V power generation
  - Low drop voltage regulators (15 V) for MOSFET gate driver and resolver extiation
  - Low drop voltage regulators (3.3V) for logic
- Maximum DC-link current: 7.5 A, nominal DC-link current 5 A
- Single side assembly of all parts
- 3 LEDs indicating power (15 Volt, 5 Volt, 3.3 Volt)

## Technical Documentation

## Parametrics

KIT_XMC4X_MOT_GPDLV_001		
Package Name -	Totally lead-free no	Halo-free no

KIT_XMC4X_MOT_GPDLV_001		
ROHS yes	Packing Size 1	Packing Type CONTAINER
Product Name XMC4500 Satellite-kit: General Purpose Motor Drive Kit	Configuration XMC4500	Family Microcontroller (32-bit)
Target Application Automation	Target Application Motor Control & Drives	Target Application Motorcycles, E-Bikes & Small Electric Vehicles
Target Application Renewable Energy	Applications -	Qualification -
Type Evaluation Board	Topology -	Input Type -

Buy

Sales Product Name	OPN	Product Status	Order online	Package Name	Totally lead-free	Halo - free	RoHS	Packing Size	Packing Type
KIT_XMC4X_MOT_GPDLV_001	KITXMC4XMOTGPDLV001TOBO1	in production		-	no	no	yes	1	CONTAINER