VCU
Fast Charging Controller
EC22377A

Intelligent fast charging controller for SAE L3-L4 levels autonomous systems

Multiple Interfaces
CP, CC, CC2, CAN, etc.

Diagnostic Feature
ISO14229 ISO15765 UDS

Powerful MCU
Infineon ASIL-D rated TC377 chip

Compatibilities
SAE J1772, ISO 15118-1/2/3, DIN 70121, IEC-61851-1/24, GB/T 27930

TECHNICAL CHARACTERISTICS

PLC – CP, PP, PE	Support PLC CP, PP, PE signal
CAN	Up to 4 CAN bus
LIN	UP to 1 LIN bus
Ethernet	Up to 1 Automotive Ethernet
H-Bridge	Up to 2 H-Bridge
PWM Input	Up to 6 PWM inputs
Digital Input	Up to 18 channels
Analog Input	Up to 14 channels
High-side Output	Up to 10 channels
Low-side Output	Up to 30 channels with 8 PWM outputs configurable
5V Output	Up to 4 ports
Wake Up Signal	Up to 1 Wake-up signal

INTERFACE

Signal Name	Number	Function	Interface Description
CP, PP, PE	-	PLC Communication	PLC Signal
5V Output	4	5V Sensor Voltage	External Sensor 5V Power Supply
AI	14	Analog Input	2 * Analog Signal 0~32V 12 * Analog Signal 0~5V
WAKEUP	1	Wake-Up Signal	Digital Signal 0~BATT
DI	18	Digital Input	Digital Signal 0~32V
IPWM1-DI	6	Frequency Input	Frequency Signal
HSO	10	High-Side Driver Output	2 * Rated 3A, Maximum 10A 4 * Rated 1A, Maximum 2A 4 * Rated 0.1A, Maximum 1A
LSO	22	Low-Side Driver Output	18 * Rated 0.75A Maximum 1.7A 4 * Rated 0.5A, Maximum 1.5A
LS_PWM	8	Low-Side Driver Output	2 * Rated 1A, Maximum 2A 2 * Rated 1.7A, Maximum 2.3A 2 * Rated 1A, Maximum 2A 2 * Rated 1.7A, Maximum 2.3A All Frequency 1Hz-2kHz
Hbridge	2	H-Bridge Driver	5-40V
CAN	4	CAN	ALL Supports CAN Flashing 1 * Supports Specific Frame Wake-Up
LIN_BUS	1	LIN BUS	-
TRX	2	Ethernet	Automotive Ethernet

DIMENSION

100.0±0.5

194.3±0.5

230.0±0.5

42.9±0.5

250.0±0.5