

Z-ZS-G-Z-ZD-IP67

Hydra ECU

FEATURES

Multiple communications interfaces

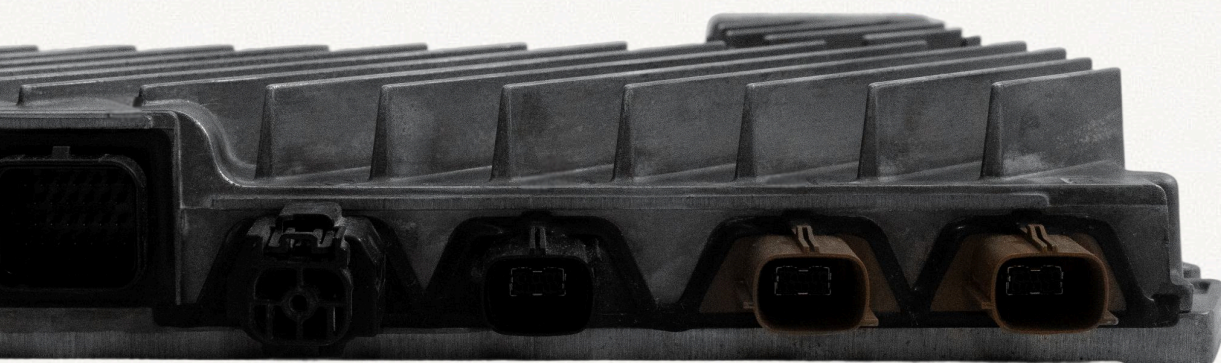
Optional backpack for expandable functionality

Infotainment capabilities

Supports 12V and 24V systems

Touch screen support

Multiple Camera support



Next-gen integration experience

The CPAC Systems Hydra is an automotive grade ECU with a powerful processor, decoupled processing strategy, and impressive features. The Hub is a central part of CPAC Systems next-generation productivity platform and supports a wide range of communication interfaces such as CAN (and CAN FD), LIN, Ethernet, Wi-Fi and Bluetooth 5.0 as standard. The Hydra supports a wide range of peripheral equipment, like multiple touch displays, camera inputs, and antennas, all of which can be supplied by CPAC Systems. With infotainment capabilities (Radio, Microphone inputs, integrated amplifier), it can act as the central node of any HMI system.

CPAC Systems Hydra is designed and tested to withstand harsh conditions, and fulfils automotive requirements. The fanless design allows for great installation flexibility. Approved in 60+ countries and deployed across each continent

POWERFUL PERFORMANCE

CPU and GPU

Qualcomm Snapdragon
SA8155P Android Processor

Automotive Grade-3

Custom Qualcomm Adreno
Generation 6 GPU

64-bit Kryo octa-core system
based on ARMv8

RELIABLE VEHICLE INTERFACE

Dedicated NXP CPU

NXP 5746

Regulations and standards

Compliant with Radio
Equipment Directive 2014/53/
EU and EMC Directive
2014/30/EU.

Meets application-specific
requirements for forestry,
agricultural, on-road and
construction machinery.

Homologation approved in
60+ countries and deployed
across each continent.

More specific information
regarding approvals upon
request.

General specifications

Power

SUPPLY VOLTAGE 8-32V

RATED CURRENT 12V/24V 10A / 5A

WITH AMPLIFIER 15A / 10A
12V/24V

Vehicle interfaces

BROADR-REACH HSD 3x 100BASE-T1

CAN & FD 6x

LIN 2x

Operating system

ANDROID AUTOMOTIVE 12.1

Memory and storage

RAM 6 GB

INTERNAL STORAGE 64 GB

Network

ETHERNET M12 D 1x 100BASE-TX

ETHERNET M12 X 1x 100BASE-TX

WIFI 802.11 a/b/g/n/ac

BLUETOOTH 5.0

Physical

DIMENSIONS 350 x 70 x 300mm
(W x D x H)

WEIGHT < 3 kg

Connectors

SUPERSEAL 34 & 26 PIN

USB-C Supports DisplayPort

HSAL-2 2x FPD-Link,
2x USB 3.1 (5Gbit/s)

FAKRA 2x BT / Wi-Fi,
1x AM / FM / DAB,
2x LTE,
1x GNSS / GPS,
4x Cameras

Environmental

OPERATING TEMPERATURE $-40^{\circ}\text{C} \leq T \leq 85^{\circ}\text{C}$

COOLING Fanless design

ENCLOSURE PROTECTION IP67

Configuration

Infotainment

AMPLIFIER 4x 20W

LINE OUT 2 Channel DAC

RADIO TUNER AM / FM / DAB

AUDIO INPUT 2x Analog mic, USB

BLUETOOTH Echo cancelling and
noise reduction

LTE and GPS backpack

SLIM CARD SLOTS 2x Micro-SIM

COMPABILITY 4G LTE/UMTS

COMPABILITY 2G/3G GSM/GPRS/EDGE

POSITIONING GPS, GLONASS,
BeiDou (Compass),
Galileo, QZSS