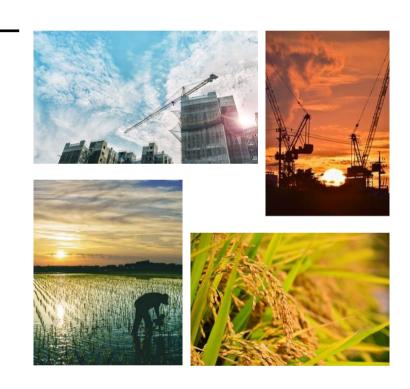


SWITCH SOLUTIONS

- Solid State Vehicle Control Unit
 - Solid State VCU



VM - Series

Electronic Switching Product VM-Series

주요 사양

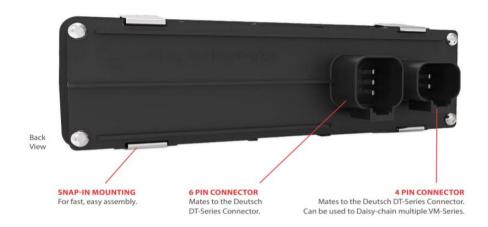
Voltage	12VDC / 24VDC	
Function	Momentary, double push, long push	
Unique Features	Bolt mounting Snap in mounting SAE J1939 CAN 2.0b IP69 UP to 3 LED / each	
Actuator Type	Rockers – all Contura styles (No locking feature available)	





SEALING PROTECTION
Fully sealed IP68 above-panel and below-panel (when connected)





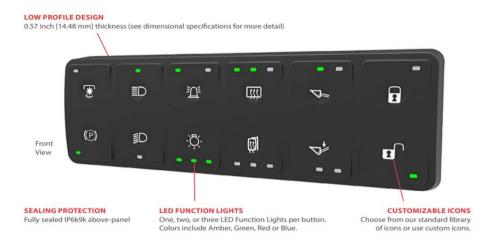
CKP - Series

Electronic Switching Product CKP-Series

주요 사양

Voltage	8 to 32V operating	
Function	Momentary, double push, long push	
Unique Features	Bolt mounting Snap in mounting SAE J1939 CAN 2.0b IP69 UP to 3 LED / each	
Typical Applications	Truck & bus Construction Agriculture & others	







CKJ - Series

Jog Switch CKJ-Series (I-Drive)

주요 사양

Voltage	12/24VDC
Dimension	81 x 110mm
Function	Rotary, Push Button, Joystick
Unique Features	J1939 CAN 2.0b LED Indicator IP67





CLTM12-S - Series

Solid State Load Controller (I/O Module)

주요 사양

Voltage	8 to 32V operating
Dimension	104.57 x 114.98 x 33.81mm
Function	J1939 CAN 2.0b
Unique Features	IP69K 8-10Amps & 4-5Amps Reverse polarity protected Short circuit & over current protected



Customer Solutions

Carling Technologies



Turn Signal Lever



LMR-Series (Mirror)



Light Control Module



V-Charger



Cruise Control



LW-Series (Washer)



Horn Control



BRIGHT

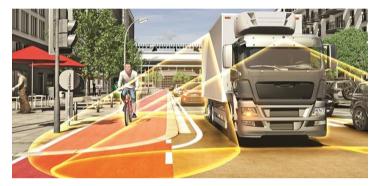
LD-Series (Dimmer)



EPB (Electric Parking Brake) Auto Hold Switch

ADAS SOLUTIONS

AVM & RADAR





77GHz BSD Millimeter Wave Radar

KUS ADAS System, 77GHz BSD Millimeter Wave Radar



Monocular Camera and DMS Fusion Scheme

KUS ADAS System, Monocular Camera and DMS Fusion Scheme

Camera Parameters						
	Minimum Value	Typical values	Maximum Value	Remarks		
Effective Speed Range	20km/h		180km/h			
Warning Speed Range	60km/h		180km/h	Minimum warning speed can be adjusted		
Lane Width Range	2.6m		4.0m			
Ability to Adapt to Corners	250m			Reference value is the radius of driveway curvature		
Earliest Warning Line	Before front wheels cross lane line (0.1m)			Can be adjusted		
Latest Warning Line	After front wheels cross lane line (0.3m)					
Lane Line Color Recognition	White and yellow					
Lane Line Type Identification	Solid line, double line, dashed line, and dotted line					
Applicable Roads	Highways, expressways, and urban roads (including tunnels)					
Applicable Weather	Day, night, dusk, dawn, fog, haze, rain, and snow			Rain, snow, and backlight can lead to performance degradation		
Maximum Duration of Warning		1s				
Alarm Blocking Time		3s		Minimum alarm time interval between two adjacent alarms		
Event Upload Interval		3min		Data card needs to be configured and uploaded over 4G network		
User Interaction	When the alarm is triggered, the system will sound a warning					

BMC Barrantana				
DMS Parameters				
	Minimum Value	Typical values	Maximum Value	Remarks
Effective Speed Range	10km/h		180km/h	Minimum warning speed can be adjusted within a certain range
Detectable Horizontal Angle	-30*		30*	Zero when the head is vertically facing the camera
Detectable Vertical Angle	*20°		20*	Zero when the head is facing the camera horizontally
Identifiable State	Fatigue, abnormal posture, yawning, make a call, departure, and smoking			
Applicable Weather	Day, night, dusk, dawn, fog, haze, rain, and snow			
Maximum Duration of Warning		15		
Alarm Blocking Time		35		Minimum alarm time interval between two adjacent alarms
Event Upload Interval		3min		Data card needs to be configured and uploaded over 4G network
User Interaction	When the alarm is triggered, the system will sound a warning			Human voice or buzzer alarm can be adjusted

















3D AVM

KUS ADAS System, 3D AVM

Specifications

360*Seamless Stitching Seamless stitching of panoramic fusion map

Dual Image Display Single view and panorama view can be displayed at the same time

2D/3D Switchable Front view, rear view, and panorama support 2D/3D image switching

Driving Angle Switching Automatically switches view angle according to driving direction

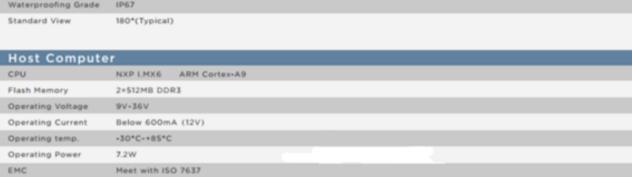
Automatically displays the front view and the reverse view when moving forward or backward

Automatically displays the Iront view and the reverse view when moving forward or backw

Recording DVR Support 4-way camera to record at the same time, support segment storage; video segment storage time can

be set, cycle recording

Camera
Camera Sensor ASX340CS
Sensor Dimension 1/3 inch
Illuminance 1 Lux@60IRE
Video Output CVBS/AHD
Waterproofing Grade IP67





PTC Heating Unit

KUS ADAS System, PTC Heating Unit

Meet with CISPR25-2008 level3 Meet with GB/T 17626.3-2006 level3

Meet with GB/T 19951-2005 level3

Product Specifications

- 1. More reliable installation:
- A. Use X ring seal.

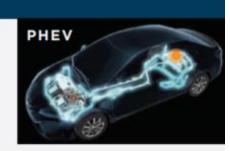
EMS

- B. The fastening method of cover plate is pin-type fixing, which makes the fixing more compact.
- 2. The flow channel is designed with wave shape, heating efficiency up to 85%.
- 3. Supports CAN/LIN communication.
- 4. Thermostatic control, multiple control modes: water temperature, wind speed, water quantity, water velocity, and power.
- 5. Update, remote start.

Available for FCEV、EV、PHEV







Product Features

for Commercila Vehicle for Passager Vehicle





		And the
Maximum Power	7.5KW±10%	5KW±10%
Storage temp.	-40°C-+125°C	-40°C-+125°C
Operating temp.	-40°C-+120°C	-40°C-+120°C
Coolant temp.	-40°C-+90°C	-40°C-+90°C
Protocol	CAN/LIN	CAN/LIN
Nominal Voltage	24V(low-voltage end), 600V(high-voltage end)	12V(low-voltage end), 350V(high-voltage end)
Working Voltage	16V+32V(low-voltage end), 500V-700V(high-voltage end)	9V-16V(low-voltage end), 250V-450V(high-voltage end
Rated Current	50mA(low-voltage end), 15A(high-voltage end)	50mA(low-voltage end), 15A(high-voltage end)
Insulation Resistance	>50MQ	>50M Q
Level of Protection	IP67	IP67
Dimensions	202(W)v187(H)v68(D)mm	160(W)v141(H)v105(D)mm

For Commercial Vehicles





