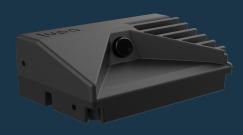




EagleCAM product specification



## Product spec

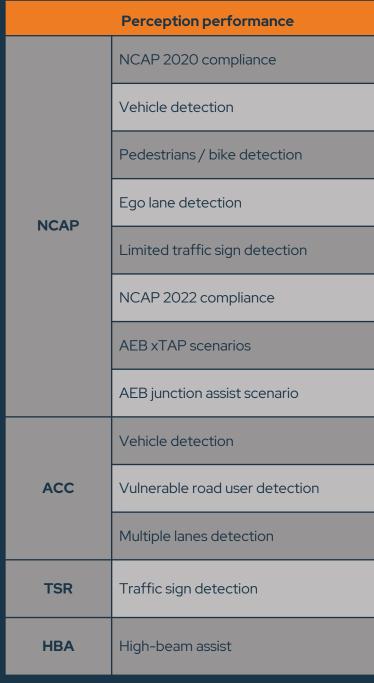


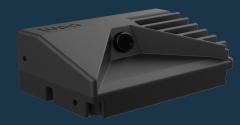
EagleCAM base
EagleCAM mid

System Function	base	mid	Comments	Related Requirements
AEB	<b>√</b>	<b>√</b>	VRUs supported, with warning (FCW)	Front radar optional for fusion option
LKA	<b>√</b>	<b>√</b>	LCC / LDP / LDW supported	EagleCAM only
ACC	<b>√</b>	<b>√</b>	Camera only vehicle detection up to 150m	Front radar optional for fusion option
TSR	<b>√</b>	<b>√</b>	Traffic light detection supported on EagleCAM mid	EagleCAM only
ICA/TJA	<b>√</b>	<b>√</b>	Camera only solution supported	Front radar optional for fusion option
НВА	optional	<b>√</b>	Use case needs to be aligned for EagleCAM base	EagleCAM only
BSD	<b>√</b>	<b>√</b>	EagleCAM mid supports side/rear camera fusion	Rear corner radars
LCA	×	<b>√</b>	EagleCAM mid supports side/rear camera fusion	Rear corner radars
HWP	×	<b>√</b>	Highway assist supports hazard detection	Five radars, 1x front, 4x corner
360° view	×	<b>√</b>	Top-view and 3D view supported	4x satellite cameras (front, side, rear)
Valet parking	×	<b>√</b>	Ultrasonic sensor fusion supported	Ultrasonic sensors (front, side & rear)
НМІ	<b>√</b>	<b>√</b>	Video out for rear camera integration	External display or headunit
OBD	<b>✓</b>	<b>√</b>	Full diagnostics supported	
OSEK	<b>✓</b>	<b>✓</b>	OSEK and AUTOSAR CAN network management	
ОТА	<b>√</b>	<b>√</b>	Application and OS upgrade supported (CAN & Ethernet)	External TCU / TBOX

## Product spec

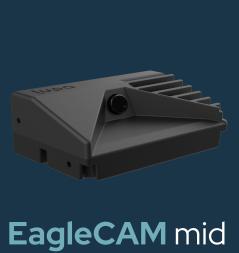
Characteristic	Comments
Field of view	up to 100° HFOV
lmager	1.7MP or 2.45MP RCCB Imager
SOC platform	Renesas V3M
Operating System	Default Version: Linux + FreeRTOS Functional Safety Version: QNX + AUTOSAR
Compute power	2x A53 @ 800MHz +  Dual R7 (Lockstep) @ 800MHz +  CNN + 4x IMP + 2x CVe accelerators
Interfaces	1x camera output (GSML or FPD-Link III) 2x CAN-FD 1x 100/1000BASE-T1 Ethernet (optional)
Voltage	12V or 24V (min. 4,5V max. 42V)
Power	< 7W (max, depending on use-case)
Environment	-40°C to 95°C, IP5K2 up to IP6K7
Safety Level	ASIL-B
Size	120 mm x 60 mm x 40 mm (L*W*H), other on request





EagleCAM base

## Product spec



Characteristic	Comments	
Field of view	up to 100° HFOV	ı
lmager	1.7MP or 2.45MP RCCB, optional 8Mpixel	ı
SOC platform	Renesas V3H	ı
Operating System	Default Version: Linux + FreeRTOS Functional Safety Version: QNX + AUTOSAR	ı
Compute power	4x A53 @ 1000MHz +  Dual R7 (LockStep) @ 800MHz +  CNN + 5x IMP + 5x CVe accelerators	
Interfaces	5x camera input (GSML or FPD-Link III) for 360° view 1x camera output (GSML or FPD-Link III) Up to 3x CAN-FD Up to 2x 100/1000BASE-T1 Ethernet	
Voltage	12V or 24V (min. 4,5V max. 42V)	ı
Power	< 12W (max, depending on use-case)	П
Temperature	-40°C to 95°C, IP5K2 up to IP6K7	
Safety Level	Up to ASIL-C	
Size	120 mm x 60 mm x 40 mm (L*W*H) , other on request	

Perception performance			
	NCAP 2020 compliance		
	Vehicle detection		
	Pedestrians / bike detection		
NCAP	Ego lane detection		
NCAP	Limited traffic sign detection		
	NCAP 2022 compliance		
	AEB xTAP scenarios		
	AEB junction assist scenario		
	Vehicle detection		
ACC	VRUs detection		
	Multiple lanes detection		
TSR	Traffic sign detection		
131	Traffic lights detection		
НВА	High-beam assist		
	Hazards detection		
	Stop lines, zebra crossings, and road markings		
Advanced features	Bumps, and potholes detection		
	Visual landmarks - For localization		
	Animals & general objects		

