



# **GEEA\_3.0 Network Topology**

**23R2.1 Release**

**GRI EEA teams**

**Edit:** zhaobing2/Aoshuang.Fu

**Approve:** Yong.Han

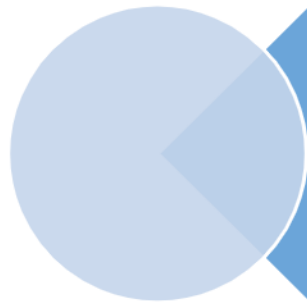
**Date:**2023.05.23

GEEA3.0 23R2网络拓扑评审 会签页		
中心/部门	会签人	日期
智能座舱中心	王世才	2023.5.22
智能驾驶中心	宋冲冲	2023.5.22
新能源及动力集成中心	白雪	2023.5.22
架构中心	赵翠发	2023.5.22
整车性能及测试中心	佟洋	2023.5.22
电子电器中心	吴江才	2023.5.22
	檀庭跃	2023.5.22

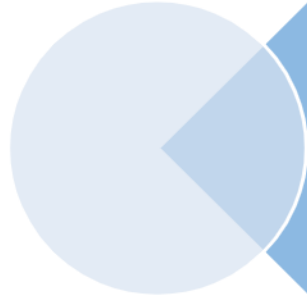
签批人员：王世才/宋冲冲/白雪/赵翠发/佟洋/吴江才/檀庭跃

# Changelog

Version	Project	Change description	Author	Date
23R2	平台	1.负载优化, ChassisCAN2升级为CANFD,BCM增加ChassisCANFD2连接;	Aoshuang.Fu	20230516
		2.PCM取消ChassisCAN1,增加ChassisCANFD2;		
		3.基于ZCUD现有内部芯片方案, ZCUD按照ZCUDM(主MCU)/ZCUMS(辅MCU)两份SDB文件打包;		
	L946	1.增加ECPM, 配置变更;		
		2.增加BCM5, 由BCM和RBCM驱动双EPB,		
		3.bugfix:AD Redundancy CAN终端电阻由ADCU5修改为PSCM2b		
	E261	1.增加AUD,配置变更;		
	E245	1.增加CCSM6,配置变更;		
		2.增加AUD,配置变更;		



# General Information



## Network Topology



## Appendix

## List of supported network types

CAN: 500kbit/s

CAN FD: 2Mbit/s

LIN: 19.2kbit/s

Ethernet 100BASE-TX: 100Mbit/s over STP (Shielded Twisted Pair) cable (2 pairs).

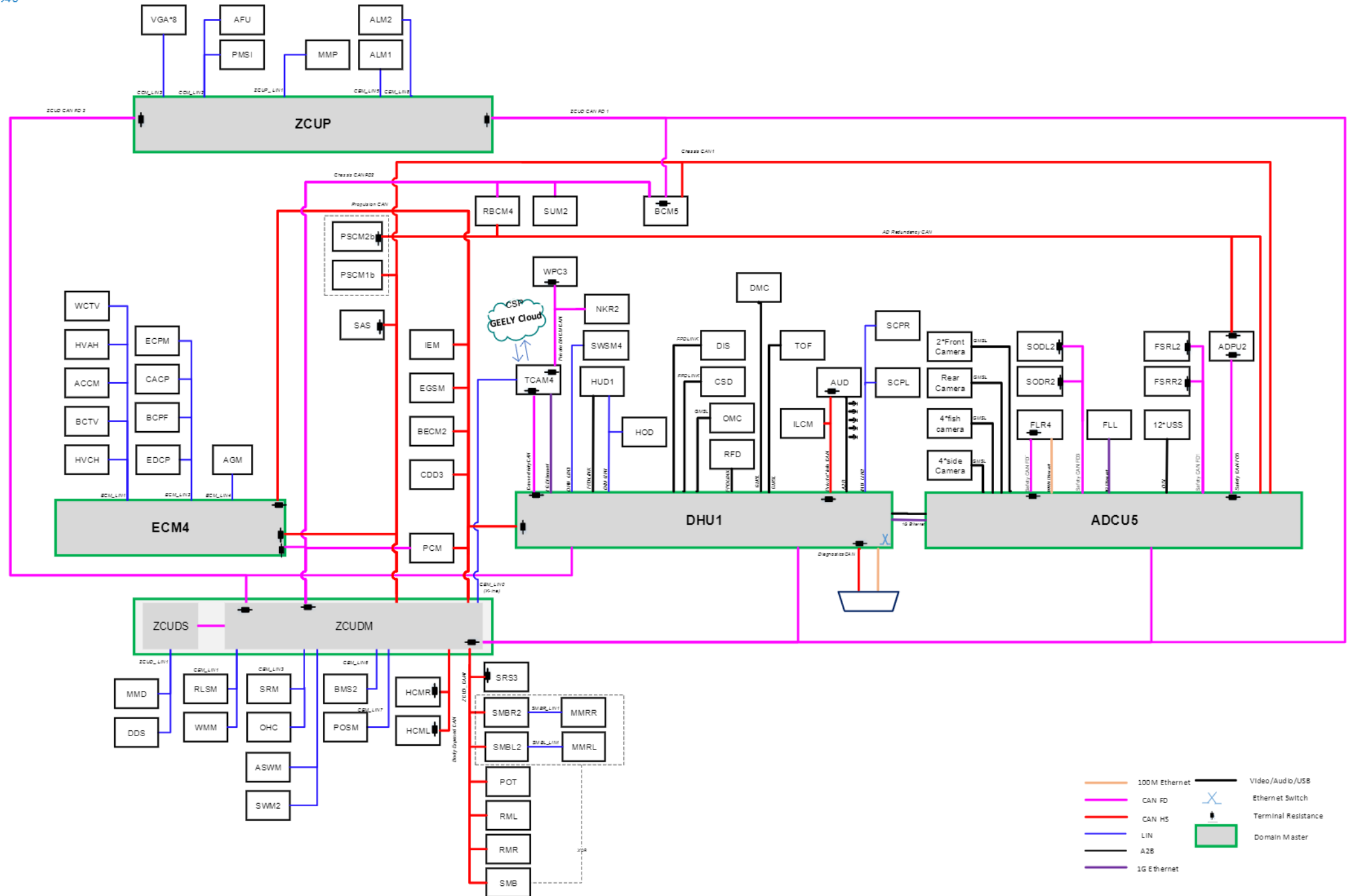
Ethernet 100BASE-T1: 100Mbit/s over UTP (Unshielded Twisted Pair) cable (1 pair).

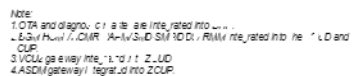
Ethernet 1000BASE-T1: 1000Mbit/s over STP (Shielded Twisted Pair) cable (1 pair).

LVDS GMSL: 2.5Gbit/s over STP (one pair) or STQ (Shielded Twisted Quad).

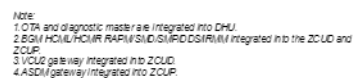
LVDS GMSL2: 6Gbit/s over STP (one pair) or STQ (Shielded Twisted Quad).













# GEEA3.0 Core Platform ECU

Node	Description	Node	Description	Node	Description
ADCU	Autonomous driving control unit	FSRL	Front Side Radar Module Left	SAS	Steering Angle Sensor
ADMC	Autonomous Driving Main Computer	FSRR	Front Side Radar Module Right	SBMS	Secondary Battery Monitoring Sensor
ADSC	Autonomous Driving Secondary Computer	HCML	Headlamp Control Module Left	SMB	Seat Module Back
ADMI	Active Safety Domain Master	HCMR	Headlamp Control Module Right	SMDL	Seat Module Back Left
BDM	Brake Booster Module	HFA6	HVAC Flap Actuator	SMBR	Seat Module Back Right
BCM	Brake Control Module	IHU	Infotainment Head Unit	SMD	Seat Module Driver
BGM	Body Gateway Domain Module	PAS3	Parking Assistance System Module	SMI	Seat Module Front
BMS	Battery Monitoring Sensor	PCM	Powertrain Control Module	SMP	Seat Module Passenger
BT/CM	BLE NFC Communication Module	PCMU	Drive Domain Control Unit	SODL	Side Obstacle Detection Control Module Left
CCM	Climute Control Module	PDGM1	Parking Distance Control Module	SODR	Side Obstacle Detection Control Module Right
CEM	Central Electronic Module	PDM	Passenger Door Module	SWM	Steering Wheel Module
DDM	Driver Door Module	POT	Power Operated Tailgate Module	TCAM	Telematics and Connectivity Antenna Module
DHU	Display Head Unit	RBCM	Redundant Brake Control Module	TCM1	Transmission Control Module
DIM1	Driver Information Module	RCM	CONTROL MODULE-REAR LIGHT	TRM	Trailer Module
ECM1	Engine Control Module	RFR	Radio frequency receiver	VCU	Vehicle Computational Unit
FLC1	Forward Looking Camera	RLDM	Rear Left Door Module	VDDM	Vehicle Dynamics Domain Master
FLL	Forward Looking Lidar	RLSM	Rain and Light Sensor Module	ZCUD	Zone Controller Unit Driver
FLR	Forward Looking Radar	RRDM	Rear Right Door Module	ZCUP	Zone Controller Unit Passenger
VGM	Vehicle Gateway Module	WPC1	Wireless Phone Charger	DMC	Drive Monitoring Camera
CSD	Center Stack Display	DIS	Driver Information Screen module	RSD	Rear Seat Display
OMC	Occupancy Monitoring Camera	PAC	Park Assist Camera	USS	Ultrasonic Sensor System
PSD	Passenger Side Display	TOF	Time of Flight		

此表后续不进行更新，可在数字主线查看：

<https://thingworx-dt.geely.com/GeelyDTUI/#/scc/ecumasterlist>

**GEEELY**



