Feature for Instrument Cluster

Functional Classification	Function	Description	Hi-grade Appl.	Lo-grade	Comment
Basic function	CAN				
	Diag	Save logs of self-diagnosis and failure information			
	SDL/CarPlay/Android Auto	Connect to smartphone application and operate			
	Bluetooth	Connect to smartphone via Bluetooth			
	Wi-Fi	Internet access via Wi-Fi			
	SOTA/FOTA	Remote software updates via Wi-Fi			
	Toolkit	GUI toolkit (Qt is in common use for AGL)			
	HomeScreen	Display home screen to select application			
	USB	Device support for USB, for example Multimedia use			
	SD card	Device support for SD card, for example Multimedia use			
	Ethernet	Device support for Ethernet, for example image data transmission and OTA use			
Camera	Camera	Display camera image for back monitor and around view monitor			
Navigation	Navigation(Native)	Bulit-in navigation (stand-alone navigation)			
	VICS	Vehicle information and communication system	()		Japanese market only
Multimedia	Amplifier	Implement Amplifier function by internal or external process			Outside of system
	Radio	Play AM/FM radio and display radio information			
	Music	Play music obtained from smartphone via SD/USB socket or SDL			
	TV	Display TV pictures obtained form ISDB-T tuner	()		Japanese market only
	Movie	Play H.264 video obtained from smartphone via SD/USB socket or SDL			
	Multimedia Apps	Entertainment function, for example play Youtube video and web browsing service			
Microphone	Telephony	Hands-free telephone			
	Voice Recognition	Recognize voice command via microphone			
User customization	User Profile	Save personal setting and reflect, for example homescreen thema and GUI			
	Cloud	Save and get personal data on cloud server			
Cluster	Display size(4.2inch)				
	Display size(5inch)				
	Display size(7inch)				
	Display size(10.25 inch)				
	Display size(12.3inch)				
	HUD output	Image data sharing for meter cluster and HUD display			
	Alarm	Dedicated buzzer(speaker) for meter cluster alarm			
	Analog gauge	Display fuel, water-temperature, speed and tachometer, and etc.using analog gauge			

Necessity

(Blank)Unnecessity

-Neither