

- Knowledge Base Company

This "Leader Hardware" with "Linux Automotive Grade" Operating System structure has 3 models: Renesas R-car-H3

STM32H7 600MHz STM32F2 120MHz

All these models use 24VDC as main power supply and installed in aluminium IP67 box.

Leader Hardware

Leader Software

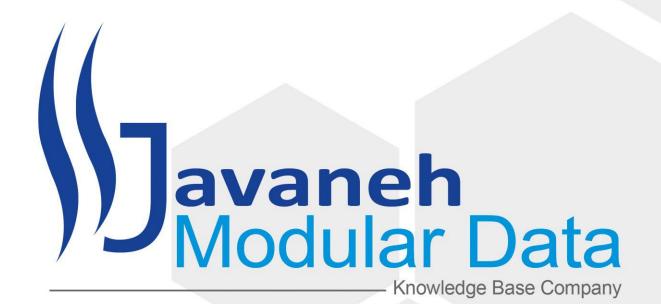
Sensor Follower

Actuator Follower









Leader Hardware

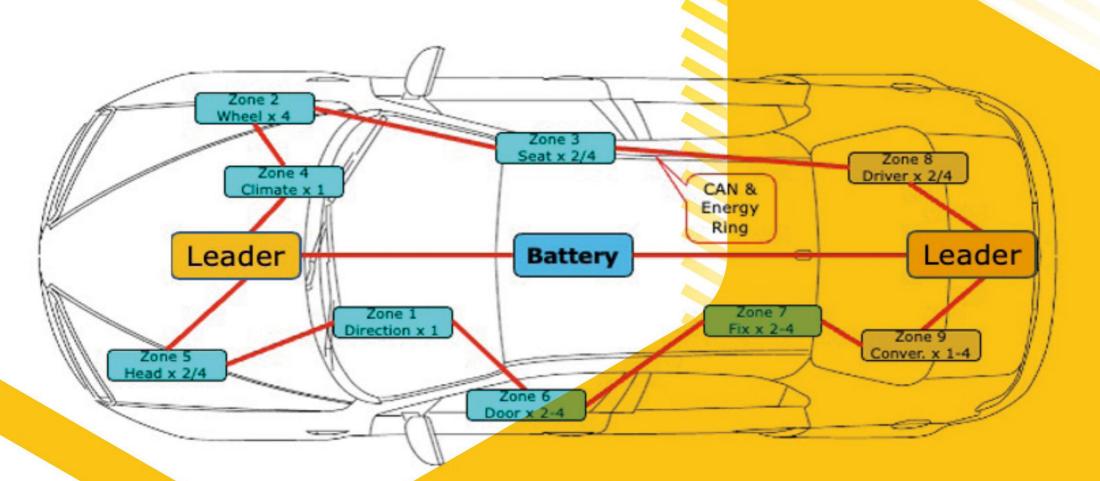
Leader Software

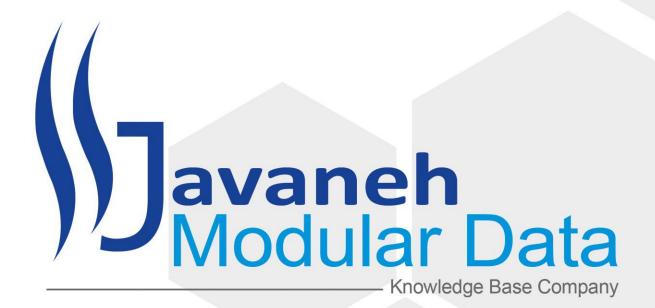
Sensor Follower

Actuator Follower

This "Leader Software" based on "Linux Automotive Grade" Operating System. The programming language is simply C++ for maximum response time and most

AUTOMOTIVE GRADE LINUX popularity. The Sensor and Actuator Devices coding is very simple for easy addressing. The data transfer system based on CAN Bus ISO 11898.





Leader Hardware

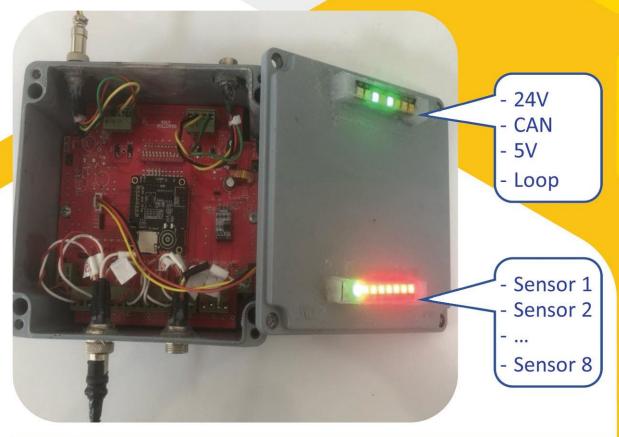
Leader Software

Sensor Follower

Actuator Follower

"Sensor Follower" based on STM32 microcontroller with 7 types as shown in below table.

These 7 types are classified as basic sensors output properties.



For easy troubleshooting 4 LEDs show the working situation.

The 8 LEDs show the 8 sensors fault.

	Follower Types									
FF	Туре	Color	Range	Devices	UpC	DownC	Sample			
01	Current	Cyan	4-20 mA	Sensor 4x3Pin	2xG4	2xG6	OilP, TiltA, HighC,HydF			
02	Millivolt	Maroon	30-300 mVDC	Sensor 4x4Pin	2xG4	2xG8	LoadcellW			
03	Ohm	Orange	50-400 Ω	Sensor 4x3Pin	2xG4	2xH6	OilT, AirH			
04	Button	Blue	0/1	Sensor 8x2Pin + 8Neg.	2xG4	2xG8	ProxiM, WheelR, DoorM			
05	Volt	Violet	0-10 VDC	Sensor 8x2Pin + 8Neg.	2xG4	4xH4	AirT, HighV, HeightD			
08	Encoder	Eggplant	-	Sensor 4	2xG4	G8	WireE, WheelE			
09	USB	Umber	USB/RS232/SPI	Sensor 4	2xG4	USB	TPMS, 3AxesG, ObstacleL			



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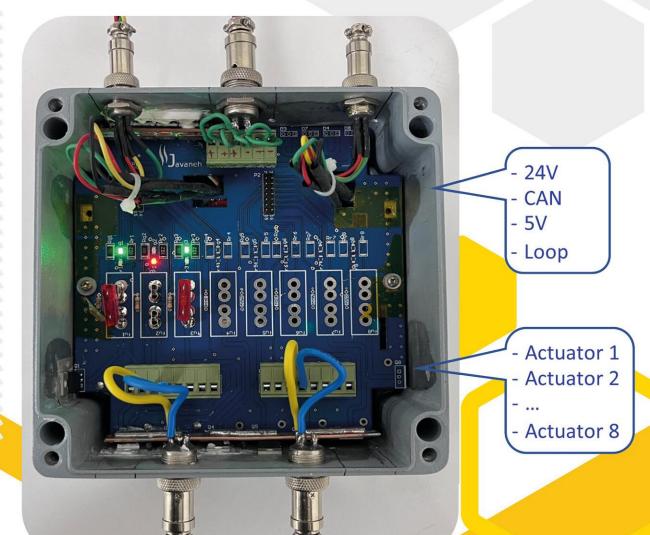
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Sensor Follower

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	Follower Types									
F	i.	Туре	Color	Range	Devices	UpC	DownC	Sample		
1	L 4	Normal	Navy	24 VDC, 2 A	Actuator 8x1Pin+ 8Neg.	2xG4+H4	2xG4	Lamp		
1	L 5	Power	Pink	24 VDC, 10 A	Actuator 4x1Pin+ 4Neg.	2xG4+H4	2xH2	Hyd. Valve		