

Technical Information

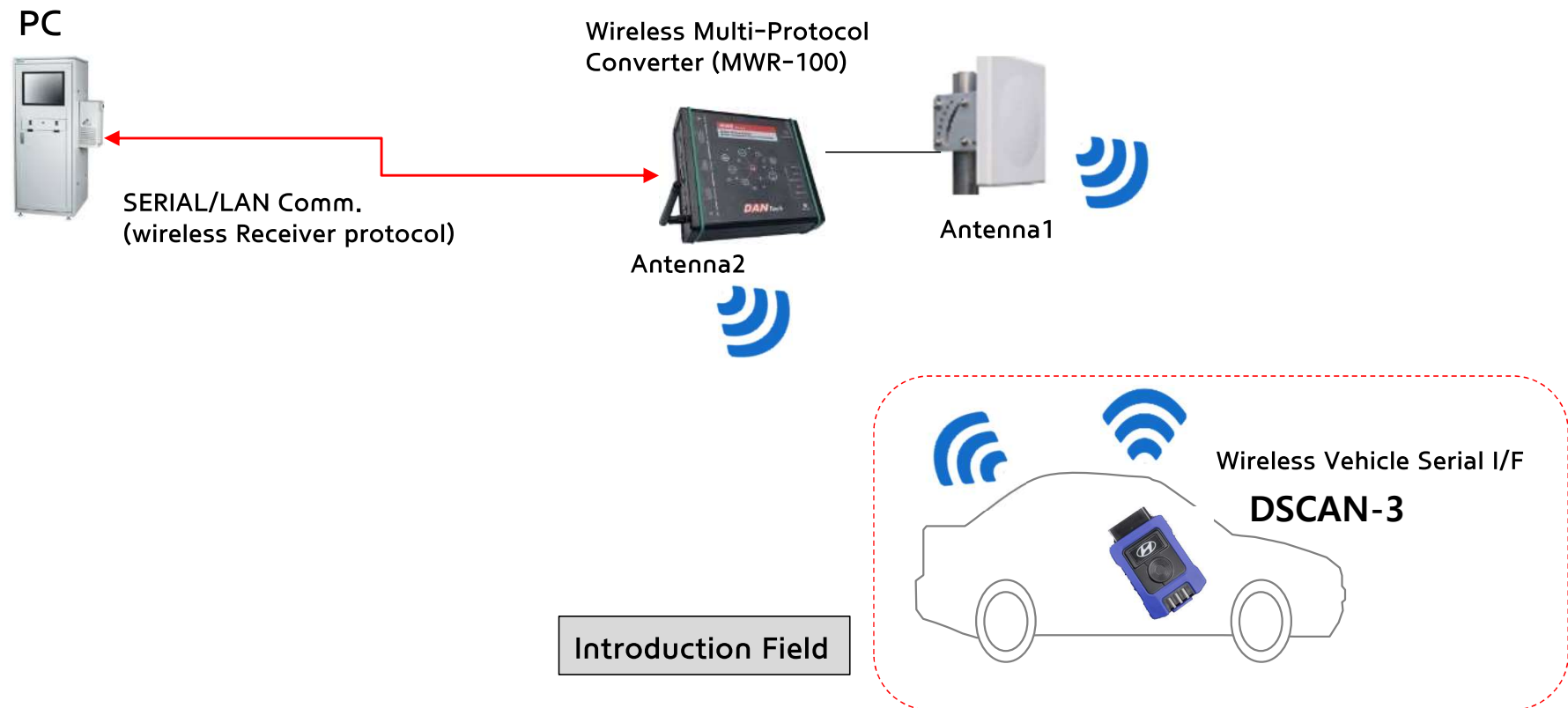
Wireless OBD Data Converter Introduction

[DSCAN-3]

2023. 09

Rev 0.1

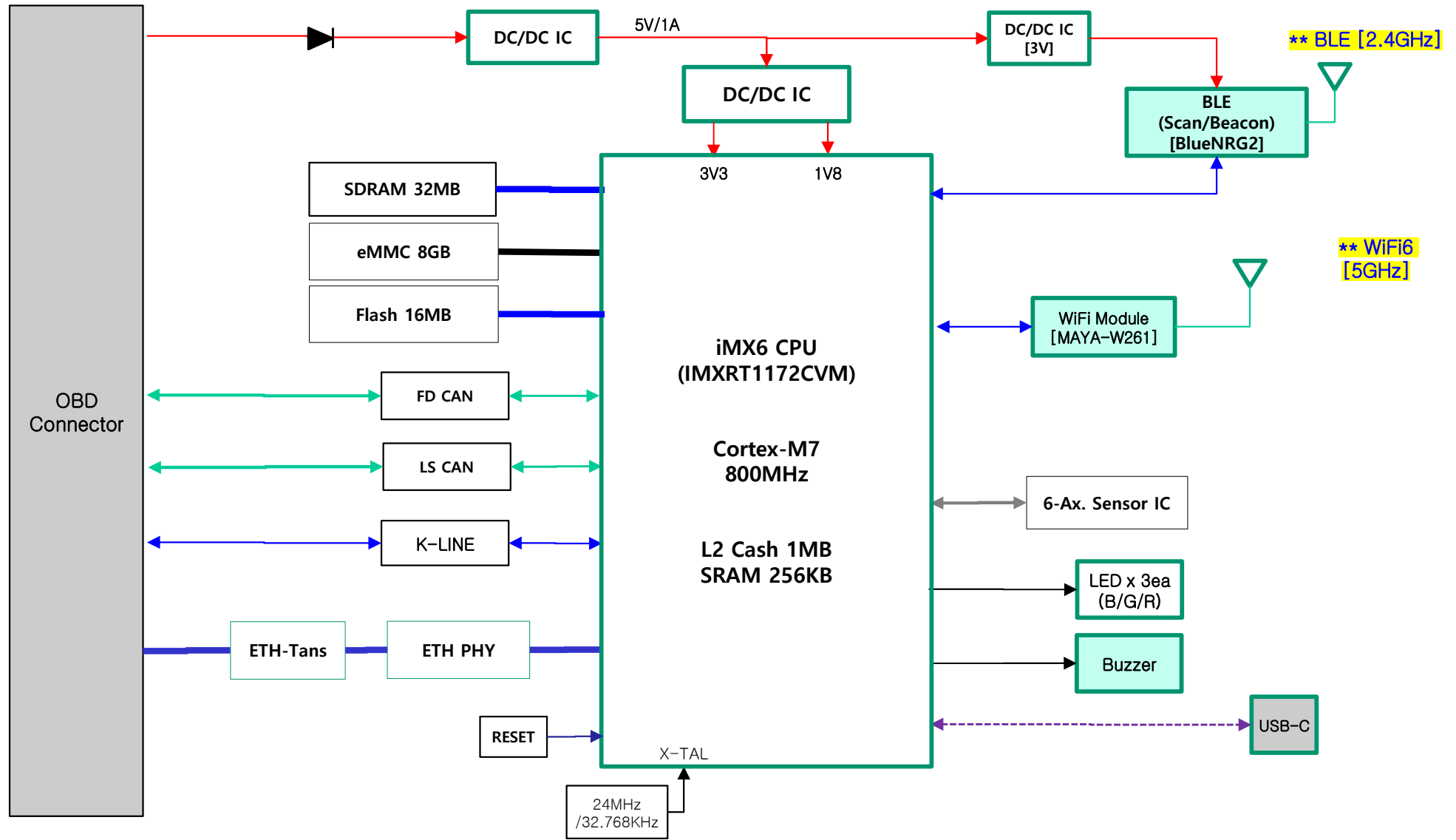
wireless OBD Data Converter [DSCAN-3] has the ability to covert wired signal such as CAN, KWP2000 to wireless for vehicle diagnostics. This device is one of the components of the EOL(end of line) vehicle diagnostic & inspection system at vehicle manufacturing factory.



H/W Specification

Items	Description	
<i>Model Name</i>	DSCAN-3	
<i>CPU</i>	IMXRT1172 ARM Cortex M7 800MHz	
<i>Memory</i>	CPU SRAM 2MB + SDRAM 32MB + Flash 16MB + eMMC 8GB	
<i>Wireless</i>	Bluetooth Low Energy 5.2	
	IEEE 802.11 b/g/n/ac/ax (WiFi6 5GHz only)	
<i>Vehicle OBD Comm.</i>	FD-CAN (2Mbps), LS-CAN (125Kbps), K-LINE (10.5kbps)	
	DOIP (10/100BASE-1)	
<i>Wire Protocol</i>	HS USB, UART	
<i>Operation</i>	DC 7 ~ 20V	
<i>Operating Temperature</i>	-10 °C ~ 65 °C (14 °F ~ 149 °F)	
	Noncondensing	-10°C ~ 10°C (14°F ~ 50°F)
	95% RH	10°C ~ 30°C (50°F ~ 86°F)
	70% RH	30°C ~ 65°C (86°F ~ 149°F)
<i>Sensor</i>	6-axis (Acc. / Gyro.) Sensor	
<i>Indicators</i>	LED x 3ea (Blue/Green/Red color), Buzzer	
<i>Power</i>	0.5A @DC12V	
<i>Size (W x L x T)</i>	86 x 56 x 28 mm	
<i>Weight</i>	90g	

Block Diagram

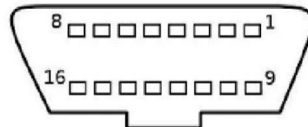


■ Figure & In/Out Port Description



* OBD Connector Pinmap

- 1. LS-CAN HIGH
- 4. Signal GND
- 5. Power GND
- 6. HS-CAN HIGH
- 9. LS-CAN LOW
- 14. HS-CAN LOW
- 16. Power (12VDC)



* Indicators



(Red) Power

(Green) Vehicle Comm.

(Blue) WiFi Comm.

■ FCC STATEMENT

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.