

# **von-S21**

## **(WCDMA BAND I)**

# **Data Manual**

**[www.jastecm.com](http://www.jastecm.com)**

**Rev1.0**

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## **1. Contact Information**

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## **2. Revision History**

Version	Date	Description
v1.0	18, Jun, 2018	Initial release

**[ Table 1 ]**

### 3. Device Description

#### 3.1 von-S21 OBD Feature

Vehicle Diagnostics	Safety & Eco Driving
ECU Diagnostic Trouble Code & Freeze-Frame Data Clear ECU Diagnostic Trouble Codes Engine Coolant Temperature Reports Driving Status Reports	Hard Acceleration/Deceleration Alarm Engine Overheat Alarm Driving Distance/Time & Data Trip Summary Reports Exchange Engine Oil/Transmission Alarm Location Based Service Driving Behavior Analysis Theft Prevention(Battery Included)

[ Table 2 ]

### 3.2 von-S21 Picture



[ Figure 1 ]



[ Figure 2 ]

### **3.3 Model Name**

**von-S21 Series (WCDMA Version)**

### **3.4 Model Number**

**3.4.1 von-S21 WCDMA Band I KT向 : JTWM-1000-KT**

**3.4.2 von-S21 WCDMA Band I SKT向 : JTWM-1000-SKT**

**3.4.3 von-S21 WCDMA Band I Global : JTWM-1000**

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## 4. Technical Specification

### 4.1 General Specification

Item	Description
CPU Processor	32-bit ARM Cortex-M4 (512KB Flash, 128KB SRAM)
Memory	8MB Serial Flash Memory
Status	2-LEDs (Power, Status)
In-Vehicle Protocol	ISO 9141-2, ISO 14230-4(KWP-2000), ISO 15765-4(CAN), SAE J1850(PWM/VPWM)
Supported Functions	SAE J1979 Mode \$01~\$0A
Vehicle Interface	SAE J1962 Standard OBD-II 16 PIN Connector
USB Port	USB 2.0 Compatible, VCP(Virtual COM Port) Supported
WCDMA	WCDMA 2100MHz, Band1
G-Sensor	Bosch 3-Axis 10-Bit Resolution, BMA250
GPS	A-GPS Support
Operation Voltage	DC 8V ~ 16V
Power Consumption	Max Power : ≤3000mW, Sleep : ≤60mW
Dimensions	Max. 46mm(W) x 25mm(D) x66mm(H)
Weight	64g
Operating Temperature	-20 ~ +70 °C
Storage Temperature	-40 ~ +85 °C

[ Table 3 ]

## 4.2 Ant Specification

Band	Specification	
	TRP	TIS
WCDMA ( BAND I)	+21dBm	-108dBm
GPS		-150dBm

[ Table 4 ]

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## 5. Electrical Specification

### 5.1 Absolute Maximum Rating

Rating	Min	Max
Storage Temperature	-40°C	+85°C
Supply Voltage (Vehicle Battery)	+8V DC	+16V DC

[ Table 5 ]

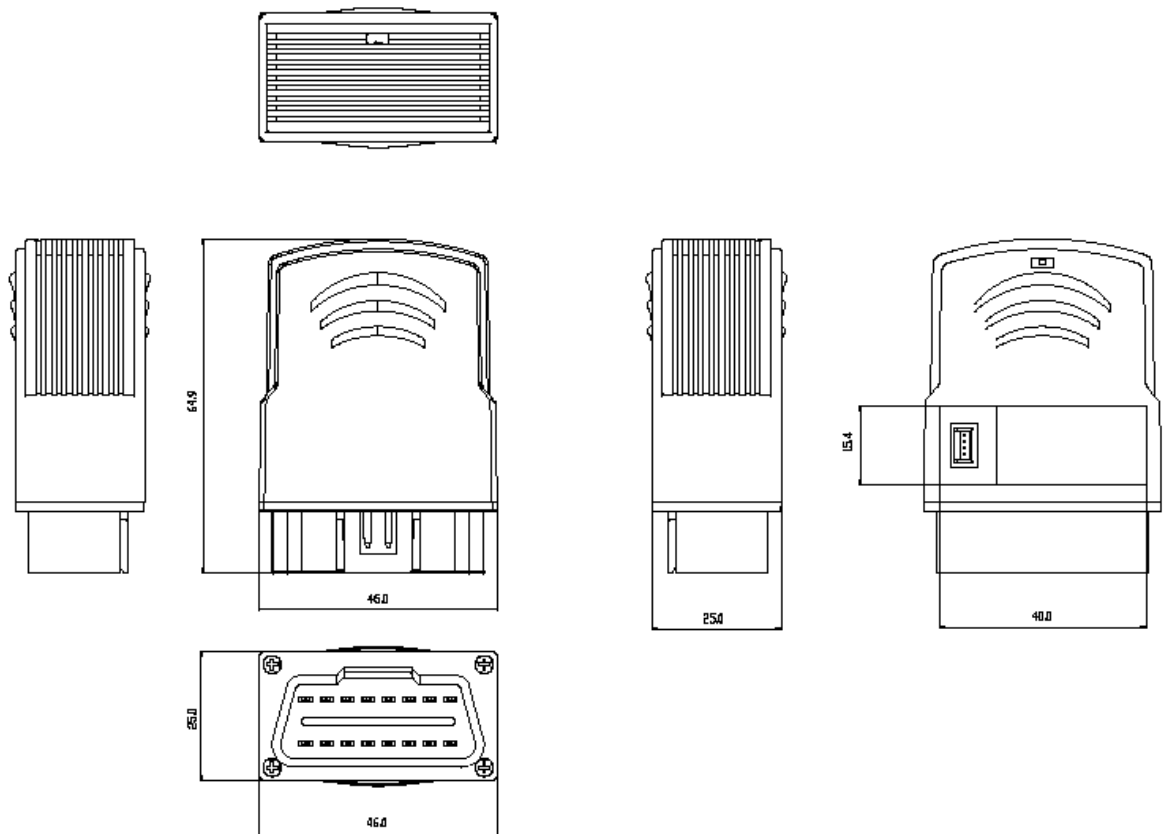
### 5.2 Recommended Operating Conditions

Rating	Min	Typ	Max
Operating Temperature	-20 °C		+70°C
Operation Voltage (Vehicle Battery)		+12V DC	
Power Consumption	60mW		3000mW

[ Table 6 ]

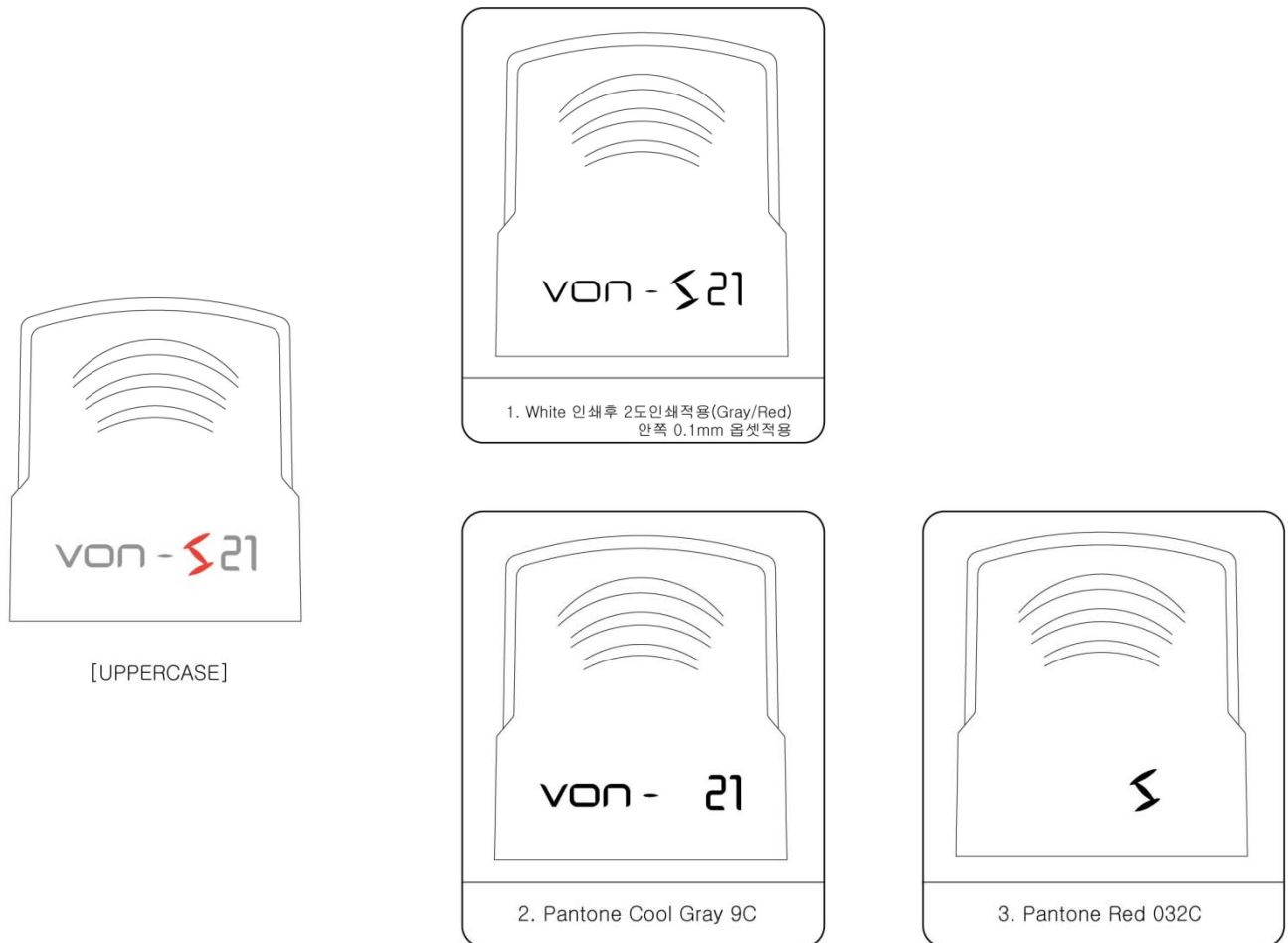
## 6. Mechanical Dimension

### 6.1 Mechanical Dimension



[ Figure 3 ]

## 6.2 Printing Specification



[ Figure 4 ]