Power Box Plus

Support 3-way IO detection
Support 1 channel RS232， with 12V output, the current can reach 0.5A
Support 2-way CAN
Support J1939 protocol
Support J1708/J1850/K-LINE protocol, choose one of three
Support 1 channel iButton access

Product overview

Power box Plus uses the OBD interface to connect to the vehicle, supports J1939, J1850, J1708 protocols, and outputs to the host through the serial port after analysis. It is suitable for diesel commercial vehicles such as heavy trucks, box trucks, and pickups.

Product Specifications

Product number	
	Power box Plus
Interface	
RS232	1 ch
SENSOR IN	3 inputs
iButton	1 channel
CAN	2 ch
K-LINE	1ch（和 J1708/J1850/K-LINE) choose one of three
Power	
Enter	DC 9-36V
Output	12V@500mA
Standby power consumption	24V@5mA
Physical properties	
Size（mm）	86.0 mm×78 mm×27 mm
Weight（g）	85g (Bare Metal)
Working environment	
Operating temperature	-40℃~+70℃
Working humidity	8%-95%（No condensation）

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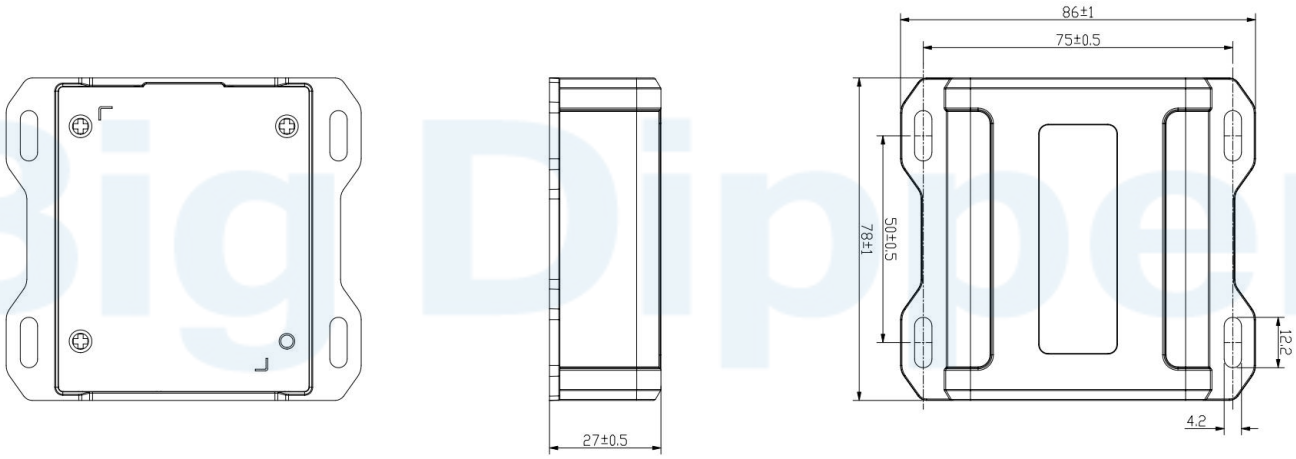
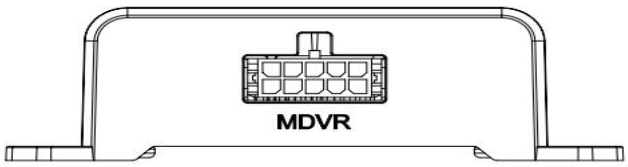
Dimensions（mm）



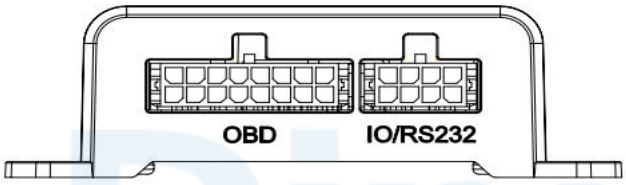
Panel interface

Front panel：



Nnumber	Silk screen	Explanation
1	MDVR	Mainly connected to AD Plus 2.0 or MDVR

Rear panel：



Number	Silk screen	Explanation
1	OBD	Connect the vehicle OBD interface
2	IO/RS232	For IO input and serial port peripherals

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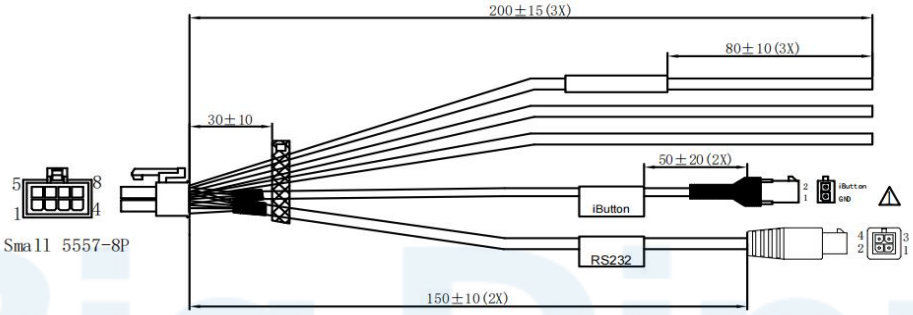
Definition of external cable interface

(1) Interface definition of alarm serial port connection line

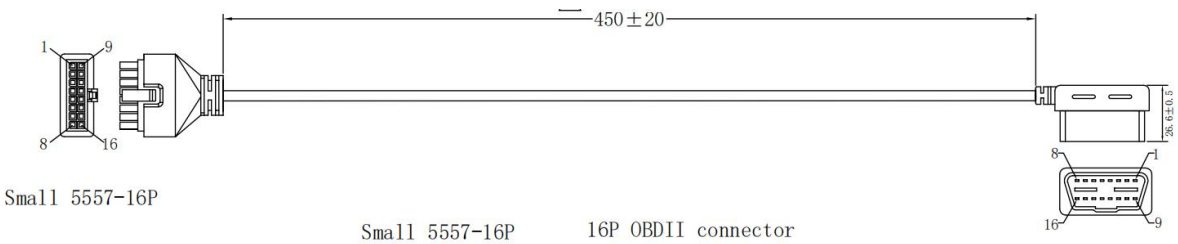


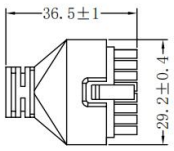
Small 5557-8P	Lable
1 — Yellow	SENSOR IN2
5 — White-Blue	SENSOR IN1
6 — Green-Blue	SENSOR IN3

Small 5557-8P	Small 5559-2P
2 — Red	2 iButton
3 — Black	1 GND

Small 5557-8P	Small 5559-4P
3 — Red	4 GND
4 — Green	3 232TX
7 — Yellow	1 12V
8 — Black	2 232RX

(2) OBD cable interface definition (standard OBD II(16PIN), optional 9PIN round head)





Small 5557-16P			16P OBDII connector
J1850 Bus+	1 — Orange	2	
CAN1-H	2 — Yellow	3	
CAN0-H	3 — Blue	6	
L-LINE	4 — Green	15	
J1708 Bus-	5 — Brown	12	
GND	7+8 — Black	4	24AWG ⚠
J1850 Bus-	9 — Orange-White	10	
CAN1-L	10 — White	11	
CAN0-L	11 — Blue-White	14	
J1708 Bus+	12 — Brown-White	13	
K-LINE	13 — Green-White	7	
12/24V	15 — Red	16	24AWG
GND	16 — Black	5	24AWG

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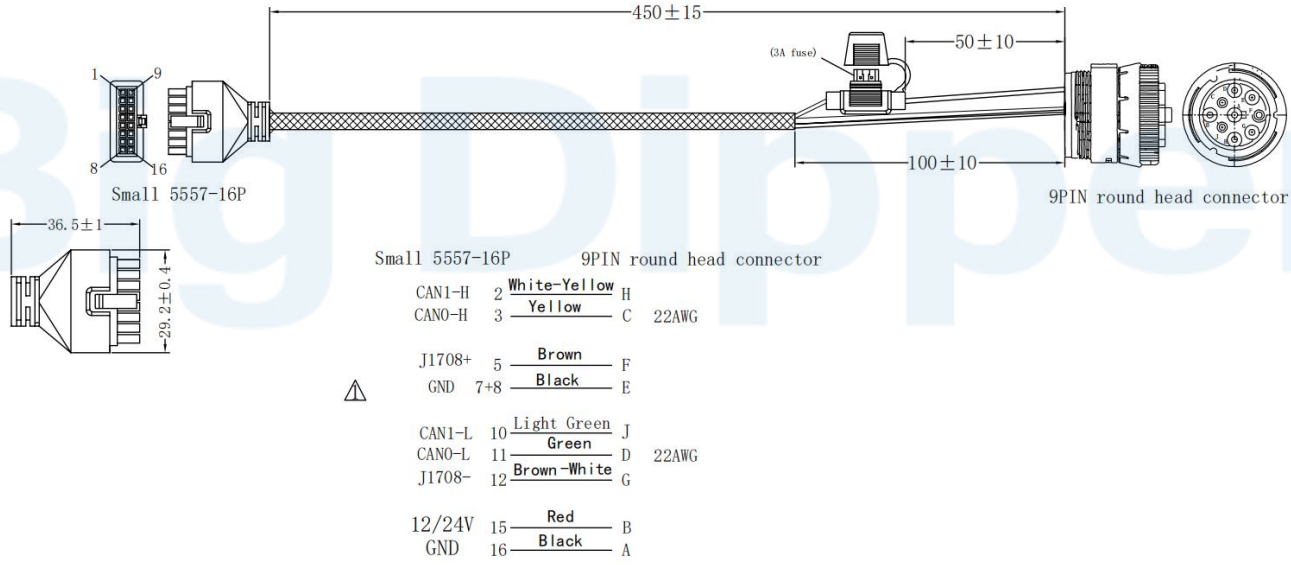
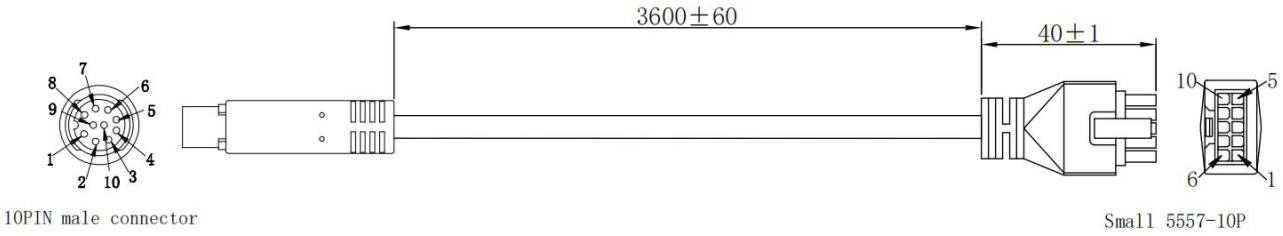
Optional 9PIN wire



（2）Host connecting cable（AD Plus 2.0)



10PIN male connector Small 5557-10P

3	Yellow	1	CAN0-H
2	Green	2	CAN0-L
4	White	3	3.3V
5	Pink	4	4G-RI
6	Purple	5	4G-DTR
10	Red	6	DC IN+
9	Black	7	GND
7	Brown	8	232TX
8	Gray	9	232RX
1	Orange	10	ACC

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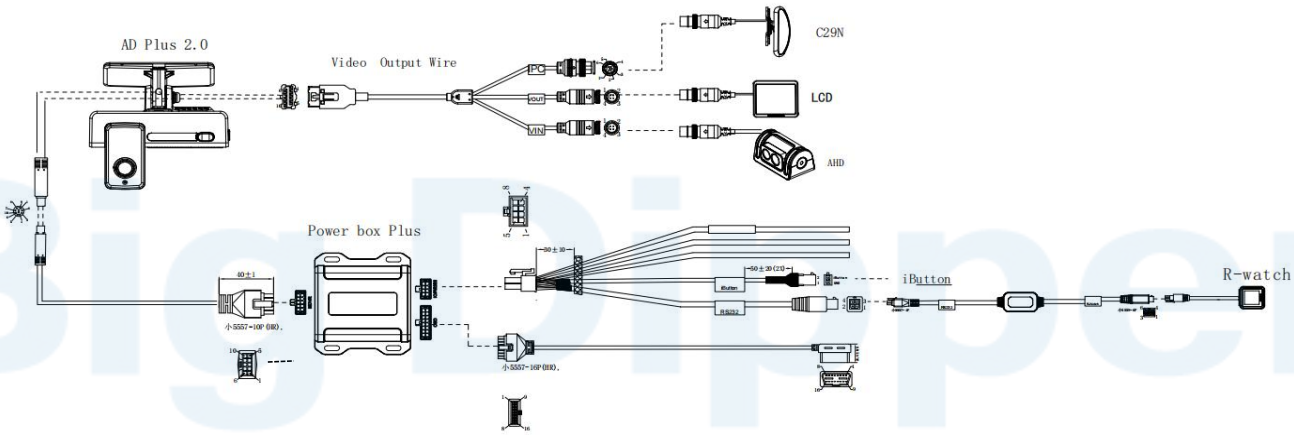
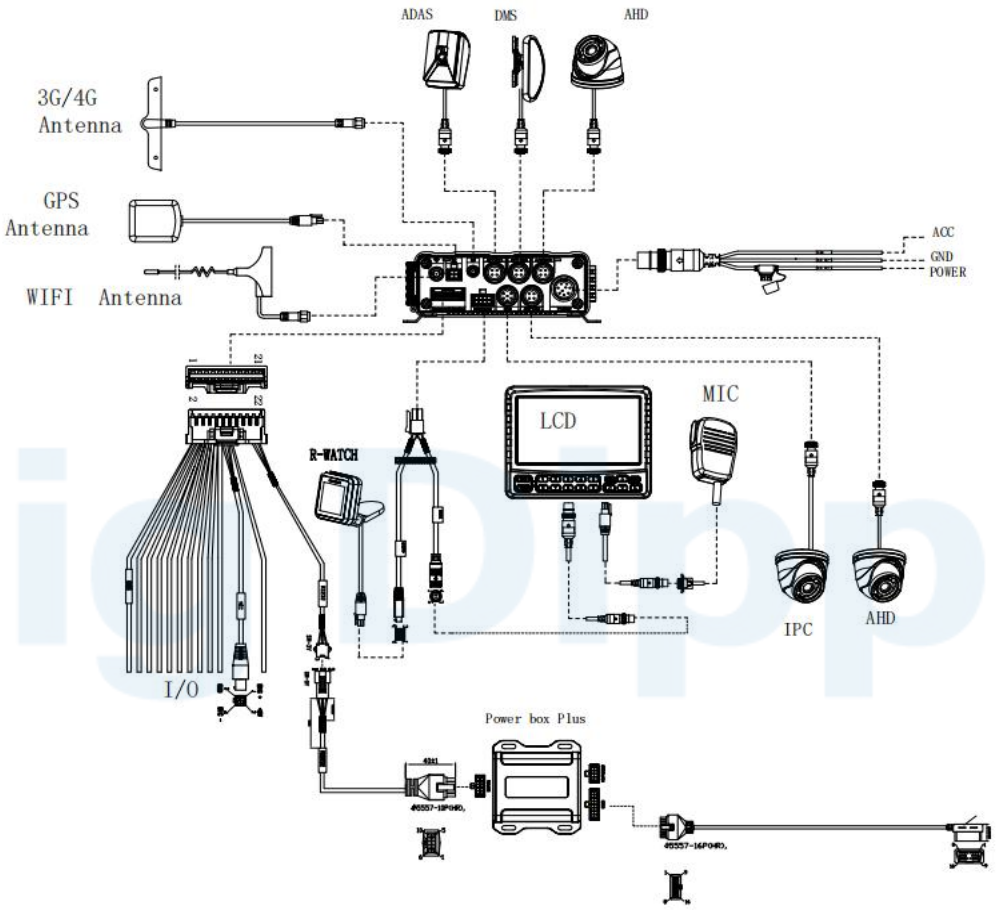
System connection diagram (Connecting AD Plus 2.0)



System connection diagram（Connect MDVR, with M1N-TKH as the column)



Note: This field connects to the MDVR solution and is supported in the next phase

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