

Connecting to the Power Ignition Module (NISKIG120)

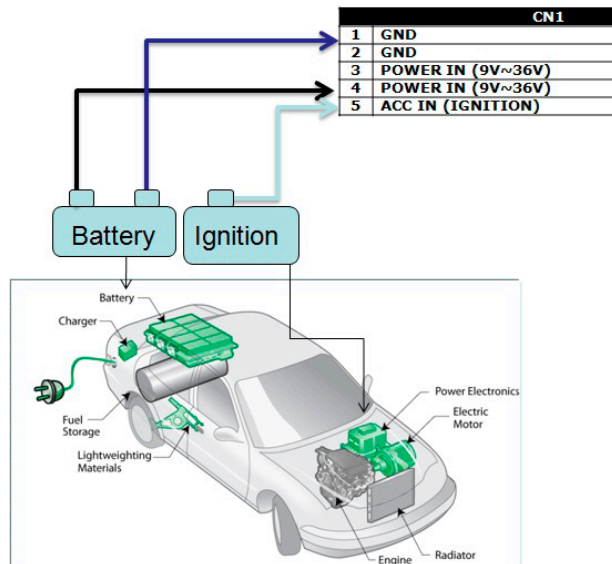
Introduction

The NISKIG120 is an external power ignition module that provides stable power to NISE 3XXX series. Using this module will ensure that the device is well shielded against premature failure at boot/shutdown phase. The following instructions will guide you on how to connect the NISKIG120 to the vehicle's battery/ignition and NVIS 3540 series.



The following instructions use NVIS 3540P8 as an example, but can be applied to all other NISE3XXX series.

1. Connect the vehicle battery and ignition to the module's power input socket, refer to the pin/wiring definition table below:



Close-up view of the power input:



Recommended wire gauge range: minimum of 10 AWG or above, maximum length of 3 meters.

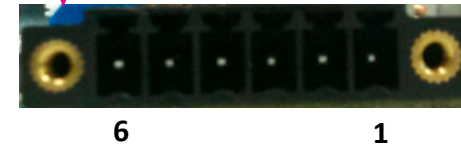
2. Connect the module's DC output to NVIS 3540's DC input, refer to the pin/wiring definition table below:



CON1: Power output port	
1	Main Power Out
2	Main Power Out
3	GND
4	GND
5	LVDS GND
6	LVDS POWER OUT (+12V/1A)

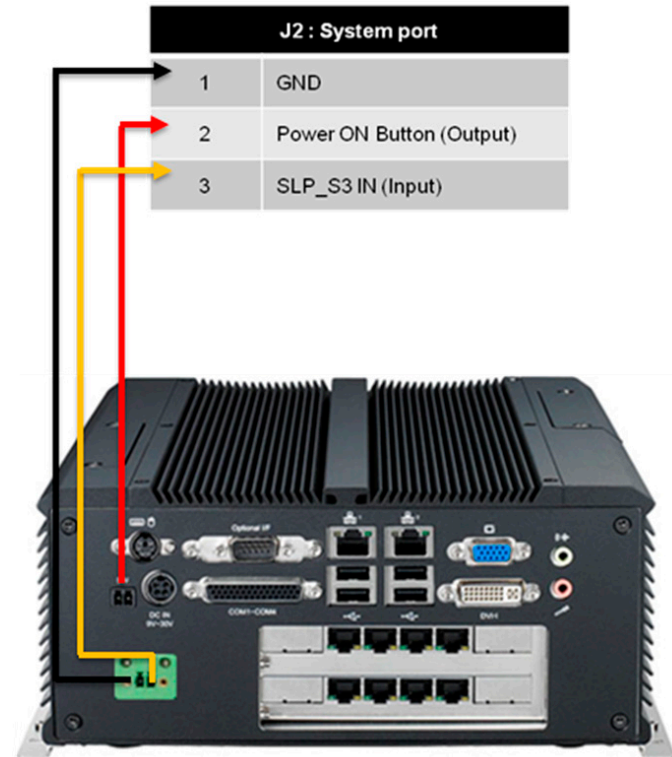
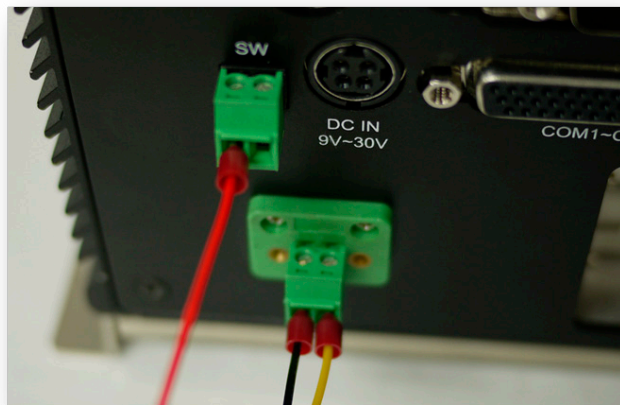
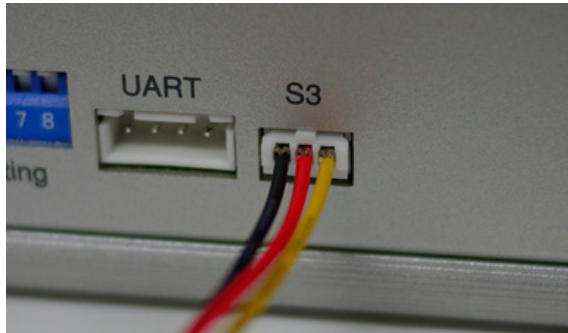


Close-up view of the DC output:



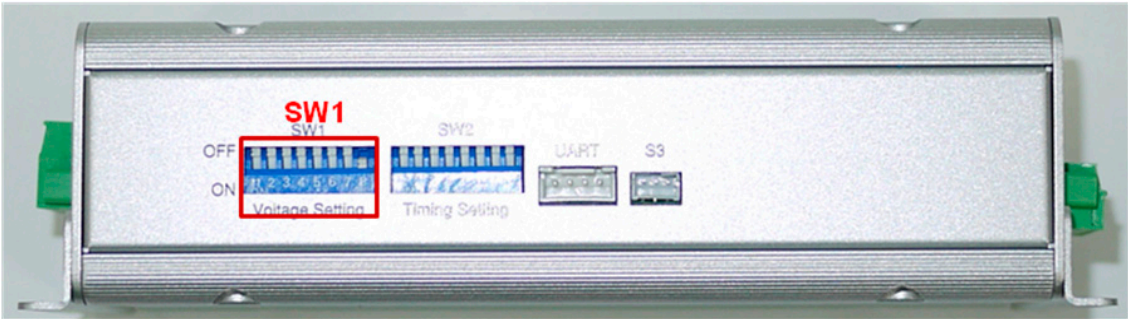
Recommended wire gauge range: minimum of 16 AWG or above, maximum length of 3 meters.

3. Connect the S3 control port to the Power Ignition port, refer to the pin/wiring definition table below:





APPENDIX G: VOLTAGE LOW Shut-down Setting (NISKIG120)



Voltage Low Shut-down Setting (12V DC Input)

SW1	DIP Switch 1	DIP Switch 2	Start-Up	Shut-Down	Note
00	0=OFF	0=OFF	11.5V	10.5V	Default
01	0=OFF	1=ON	12V	11V	
10	1=ON	0=OFF	12.5V	11V	
11	1=ON	1=ON	12.5V	11.5V	

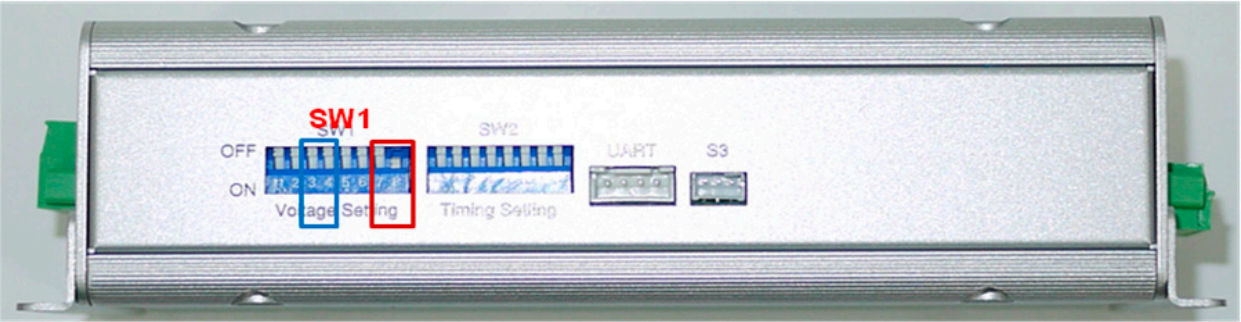
Voltage Low Shut-down Setting (24V DC Input)

SW1	DIP Switch 1	DIP Switch 2	Start-Up	Shut-Down	Note
00	0=OFF	0=OFF	23V	21V	Default
01	0=OFF	1=ON	24V	22V	
10	1=ON	0=OFF	25V	22V	
11	1=ON	1=ON	25V	23V	





APPENDIX H: DC INPUT & OUTPUT Setting (NISKIG120)



DC Input Setting

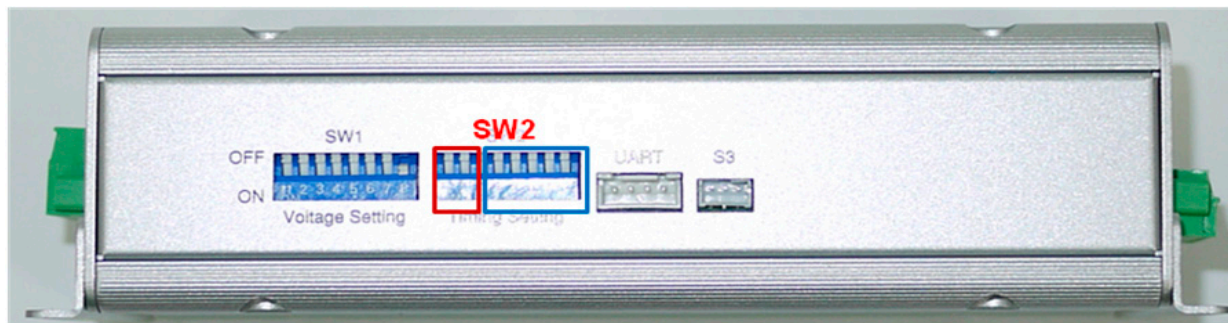
SW1	DIP Switch 3	DIP Switch 4	Function Setting	Note
00	0=OFF	0=OFF	12V DC input	Default
01	0=OFF	1=ON	24V DC input	
10	1=ON	0=OFF	Reserved only	
11	1=ON	1=ON	9~36V Power module without Ignition function	

DC Output Setting

SW1	DIP Switch 7	DIP Switch 8	Function Setting	Note
00	0=OFF	0=OFF	Disable	Default
01	0=OFF	1=ON	24V Output	
10	1=ON	0=OFF	19V Output	
11	1=ON	1=ON	12V Output	



APPENDIX I: POWER ON/OFF Delay Timer Setting (NISKIG120)



Delay Timer Setting

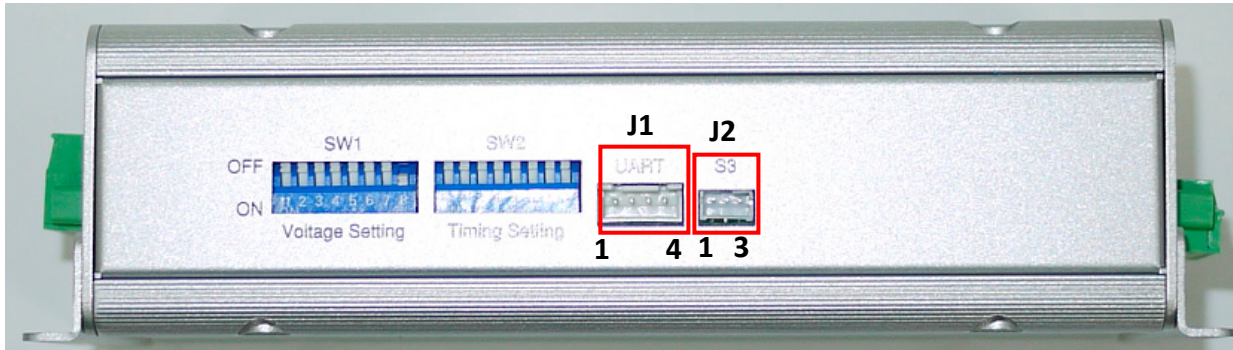
Power On Delay Timer			
SW2	DIP Switch 1	Function Setting	Note
0	0=OFF	Disable (default 3 seconds)	Default
1	1=ON	Enable (DIP Switch 3,4,5)	

Power Off Delay Timer			
SW2	DIP Switch 2	Function Setting	Note
0	0=OFF	Disable (default 0 second)	Default
1	1=ON	Enable (DIP Switch 6,7,8)	

DIP Switch 3, 4, 5	
POWER ON Delay Timer Select	
000	10sec
100	30sec
010	1min
110	5min
001	10min
101	15min
011	30min
111	1hour

DIP Switch 6, 7, 8	
POWER OFF Delay Timer Select	
000	20sec
100	1min
010	5min
110	10min
001	30min
101	1hour
011	6hour
111	18hour

APPENDIX J: MCU PROGRAMMING (NISKIG120)



J1 : MCU programming port (RS232 signal)	
1	GND
2	COM TX (Output)
3	COM RX (Input)
4	N/A

J2 : System port	
1	GND
2	Power ON Button (Output)
3	SLP_S3 IN (Input)
4	N/A