

Impedance Matching

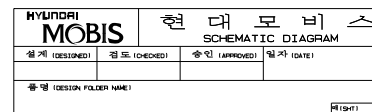
*CN100



Differential: 100%

BT ANT / WIFI ANT

Single:50ohm



[illegible][illegible]

The top diagram, titled "Single:50ohm", shows a circuit for a single-ended 50 ohm module. It features a 4N2002 optoisolator (U1) with a 10K pull-up resistor (R1) and a 100K resistor (R2). The output of the optoisolator is connected to a 50 ohm load (R3). The circuit also includes a 100K resistor (R4) and a 100K resistor (R5). The output of the circuit is connected to a 50 ohm load (R6).

The bottom diagram, titled "Impedance Matching Differential:90ohm", shows a circuit for a differential 90 ohm module. It features a 4N2002 optoisolator (U1) with a 10K pull-up resistor (R1) and a 100K resistor (R2). The output of the optoisolator is connected to a 50 ohm load (R3). The circuit also includes a 100K resistor (R4) and a 100K resistor (R5). The output of the circuit is connected to a 50 ohm load (R6).

[illegible][illegible][illegible][illegible]

분류	용인	Description	F/W
미국/현대	M30 1200 1306 F	MODULE - NYCA-M3201-F-HMA	O1D-D2V2Z
미국/기아	M30 1200 1305 F	MODULE - NYCA-M3201-F-KMA	O1D-D2V2Z
캐나다/현대	M30 1200 1304 F	MODULE - NYCA-M3201-F-HMA	O1D-D2RELL
캐나다/기아	M30 1200 1303 F	MODULE - NYCA-M3201-F-KMA	O1D-D2RELL

Startup Timing **Shutdown Timing**

SXM EV min 50ms

SHDN-DELAY min 5ms

SHDN min 5ms

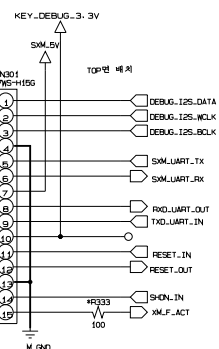
RESET min 250ms

High Delay Timing(tp/min/max) = 0.35ms
Low Delay Timing(tp/min/max) = 2.85*2.40.35 = 5.62ms
Low Delay Timing(min) = 2.40*1.980.35 = 5.102ms
Low Delay Delay Timing(max) = 3.32*2.420.35 = 8.3844ms

The schematic diagram illustrates the electrical connections for the M3020S00072 sensor module. Key components include:

- Detection Voltage Section:** A network of resistors (R338, R339, R340) and capacitors (C336, C337, C338, C339) connected to a 3.0V supply and ground.
- Sensor Interface:** Connections for SAM_SHN_DELAY, SAM_SHN, SAM_RESET, and various I2C/SMBus signals (SM*_I2S_BCLK, SM*_I2S_DATA, SM*_I2S_MCLK, SM*_I2S_LCK).
- Control Signals:** INQUIRY_OUT, INQUIRY_IN, RESET_OUT, and RESET_IN.
- Power and Grounding:** Multiple GND pins and a BUS_3V supply connection.
- Resistor Network:** A series of resistors (R316 through R328) forming a voltage divider or termination network.
- Capacitor Network:** Various capacitors (C300 through C328) used for decoupling and timing.

The diagram also includes labels for specific components like "MAX. 300mA SAM-5V" and "M3020S00072".



제목	1	2	3	4
EXT MON/BT_WIFI	EXT MON only	BT/WIFI only	EXT MON and BT-WIFI	X
STOB_EXT_MON/BT_WIFI	0	X		
C_CAN1_I_CAN	C_CAN	I_CAN	X	
B_CAN	0-1, 2:CAN	X		
MODEM	미국/대한	미국/기타	캐나다/현대	캐나다/기타
MODEM_USIM	0	X		
MODEM_DEBUG_CONNECTOR	0	X		
EV_OBC	0	X		
SYM	미국	캐나다	X	
XM_DEBUG_CONNECTOR	0	X		
BTOR_CAN/MODEM/SYM	0	X		