

QTY 1	Description	Vendor
1		
	39-01-2165 housing	Molex
	(2x 8 way 4.2mm pitch Mini-Fit Jr receptacle)	
6	0039000209 (tin plated, female, brass) crimps	Molex
1		_
1		See notes
6	20mm black heat shrink sleeve	-
	(spread along the length)	
5		-
2	Standard AWG 22 wire	_
1	90142-0016 housing	Molex
-		
3		Molex
1		Deltron
1		Deltron
	1 1 6	6 0039000209 (tin plated, female, brass) crimps (4A @ 22AWG, 2A@26AWG) 1 Cable tie to secure ferrite into place 1 Ferrite sleeve (2 turns) 6 20mm black heat shrink sleeve (spread along the length) 5 Standard AWG 26 wire (see comments below) 2 Standard AWG 22 wire 1 90142-0016 housing (2x8way 2.54mm pitch receptacle)

Comments

CON1 connects to Smart Ticket CON2 connects to Host CON3 connects to V- (GND)

CON4 connects to V+ (12V or 24V)

NOT TO SCALE

and 1 wire is from CON2 to the soldered intersection. CON3 and CON4 are for powering up the NV200 so V+ can be connected to 12V or 24V

For item G, 2 wires are short links for pins 16 and 7 and pins 14 and 5; 2 wires are from CON1 to CON2;

Connectivity

CON1 Pin	Ferrite 1 loop	CON2 Pin	CON3 Pin	CON4 Pin	Gauge (AWG)	Colour	Comment
16, 7	16	1	-	-	26	White	SSP TXD (Validator to Host)
14, 5	14	5	-	-	26	Blue	SSP_RXD (Host to Validator)
9	9	-	-	1	22	Red	V_IN
1	1	16	1	-	22	Black	GND

Pins 16 and 7 on CON1 are linked together. Pins 14 and 5 on CON1 are linked together.

Ferrite Sleeve

Ferrite sleeve needs to have $>800\Omega$ @ 100MHz. Recommended parts:

- a) Wurth 74270057 808Ω @ 100MHz (**two turns**)
- b) Wurth 74271111 800Ω @ 100MHz (**two turns**)



1 turn = threaded through ferrite sleeve



2 turns = threaded through with one loop

Note to Manufacturers

Certificates are needed for the following:

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RoHS compliance UL94-V0 rated (connector hou

ousing) UL94-VVV1 rated (all other parts)					All dimer	ISI
	DRAWN BY		MATERIAL All parts must be rated to at least UL94-VW1. All connector	-	-	_
Smart Ticket to Host assembly	A Lunsong	31/01/2012	housings must be rated to UL94-V0. Must be RoHS compliant.	-	-	Π
(customer)	CHECKED BY	DATE	FINISH	C2	-	
(0401011101)	_	_	_			-

sions are in mm ±5mm, unless specified

A Lunsong

MOD BY

30/01/2013

DATE

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