

DIO\_3118  
Proposal for Digital-IO Generic FMC (Rev.02)

**3M SDR Input Connector Pin-out for SDR Cable Part 1SD26-3120-00C-xxx**

Frame Side Pin No	Input CN-2 Connector	Pol.	Cable wires and Twisted Paires
2	GND	-	Twisted – Paires TTL / GND
15	LVTTL_IN_0	+	
3	LVTTL_IN_1	+	Twisted – Paires TTL / TTL
16	LVTTL_IN_2	-	
4	LVTTL_IN_3	-	Twisted – Paires TTL / TTL
17	LVTTL_IN_4	+	
5	LVTTL_IN_5	+	Twisted – Paires TTL / GND
18	GND	-	
6	LVTTL_IN_6	+	Twisted – Paires TTL / TTL
19	LVTTL_IN_7	-	
7	GND	-	Twisted – Paires TTL / GND
20	LVTTL_IN_8	+	
8	LVTTL_IN_9	+	Twisted – Paires TTL / GND
21	GND	-	
9	LVTTL_IN_10	+	Twisted – Paires TTL / TTL
22	LVTTL_IN_11	-	
10	LVTTL_IN_12	+	Twisted – Paires Spare TTL / TTL
23	LVTTL_IN_13	-	
11	LVTTL_IN_14	+	Twisted – Paires Spare TTL / TTL
24	LVTTL_IN_15	-	
12	LVDS_INp_0	+	Twisted – Paires Diff-LVDS Input
25	LVDS_INn_0	-	
<b>1</b>	<b>+5V</b>	<b>Pwr</b>	<b>Twisted – Paires Used for Power</b>
<b>26</b>	<b>+5V</b>	<b>Pwr</b>	
13	Inner-Shield	Gnd	Drain Wire
14	Inner-Shield	Gnd	Drain Wire

**Warning:** Some Diff-Paires Polarity are crossed (Yellow Pol. On CN-2)  
**Note:** +5Volts Power Max is 2Amp (C-C protection & Pwr\_Enable by MIC2505YM)  
TTL Inputs are +5Volts tolerant and 24Volts Protected

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**3M SDR Output Connector pin-out for Cable Cable Part 1SD26-3120-00C-xxx)**

Camera Side Pin No	Output CN-1 Connector	Pol.	Cable wires and Twisted Paires
2	LVDS_OUTn_0	-	Twisted – Paires Diff-LVDS
15	LVDS_OUTp_0	+	
3	LVTTL_OUT_0	-	Twisted – Paires LVTTL / LVTTL
16	LVTTL_OUT_1	+	
4	LVTTL_OUT_2	-	Twisted – Paires LVTTL / LVTTL
17	LVTTL_OUT_3	+	
5	LVTTL_OUT_4	-	Twisted – Paires LVTTL / LVTTL
18	LVTTL_OUT_5	+	
6	GND	-	Twisted – Paires LVTTL / GND
19	LVTTL_OUT_6	+	
7	LVTTL_OUT_7	+	Twisted – Paires LVTTL / GND
20	GND	-	
8	LVTTL_OUT_8	-	Twisted – Paires LVTTL / LVTTL
21	LVTTL_OUT_9	+	
9	GND	-	Twisted – Paires LVTTL / GND
22	LVTTL_OUT_10	+	
10	LVTTL_OUT_11	+	Twisted – Paires LVTTL / LVTTL
23	LVTTL_OUT_12	-	
11	LVTTL_OUT_13	-	Twisted – Paires LVTTL / LVTTL
24	LVTTL_OUT_14	+	
12	LVTTL_OUT_15	+	Twisted – Paires LVTTL / GND
25	GND	-	
1	+5V	Pwr	Twisted – Paires Used for Power
26	+5V	Pwr	
13	Inner-Shield	Gnd	Drain Wire
14	Inner-Shield	Gnd	Drain Wire

**Warning:** Some Diff-Paires Polarity are crossed on CN-2 (look at page 3)  
**Note:** +5Volts Power Max is 2Amp (C-C protection & Pwr\_Enable by MIC2505YM)

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**SDR Cable Pinout (Cable Part 1SD26-3120-00C-200) for Loop-Back Test (CN-1 to CN-2)**

Camera Side Pin No	Output CN-1 Connector	Pol.	Cable wires and Twisted Paires	Input CN-2 Connector	Pol.	Frame Side Pin No
2	LVDS_OUTn_0	-	Twisted – Paires Diff-LVDS	LVDS_INn_0	-	25
15	LVDS_OUTp_0	+		LVDS_INp_0	+	12
3	LVTTL_OUT_0	-	Twisted – Paires LVTTL / LVTTL	LVTTL_IN_15	-	24
16	LVTTL_OUT_1	+		LVTTL_IN_14	+	11
4	LVTTL_OUT_2	-	Twisted – Paires LVTTL / LVTTL	LVTTL_IN_13	-	23
17	LVTTL_OUT_3	+		LVTTL_IN_12	+	10
5	LVTTL_OUT_4	-	Twisted – Paires LVTTL / LVTTL	LVTTL_IN_11	-	22
18	LVTTL_OUT_5	+		LVTTL_IN_10	+	9
6	GND	-	Twisted – Paires LVTTL / LVTTL	GND	-	21
19	LVTTL_OUT_6	+		LVTTL_IN_9	+	8
7	LVTTL_OUT_7	+	Twisted – Paires LVTTL / GND	LVTTL_IN_8	+	20
20	GND	-		GND	-	7
8	LVTTL_OUT_8	-	Twisted – Paires LVTTL / GND	LVTTL_IN_7	-	19
21	LVTTL_OUT_9	+		LVTTL_IN_6	+	6
9	GND	-	Twisted – Paires LVTTL / GND	GND	-	18
22	LVTTL_OUT_10	+		LVTTL_IN_5	+	5
10	LVTTL_OUT_11	+	Twisted – Paires LVTTL / GND	LVTTL_IN_4	+	17
23	LVTTL_OUT_12	-		LVTTL_IN_3	-	4
11	LVTTL_OUT_13	-	Twisted – Paires LVTTL / GND	LVTTL_IN_2	-	16
24	LVTTL_OUT_14	+		LVTTL_IN_1	+	3
12	LVTTL_OUT_15	+	Twisted – Paires LVTTL / GND	LVTTL_IN_0	+	15
25	GND	-		GND	-	2
<b>1</b>	<b>+5V</b>	<b>Pwr</b>	<b>Twisted – Paires Used for Power</b>	<b>+5V</b>	<b>Pwr</b>	<b>1</b>
<b>26</b>	<b>+5V</b>	<b>Pwr</b>		<b>+5V</b>	<b>Pwr</b>	<b>26</b>
13	Inner-Shield	Gnd	Drain Wire	Inner-Shield	Gnd	13
14	Inner-Shield	Gnd	Drain Wire	Inner-Shield	Gnd	14

**Warning:** Some Diff-Paires Polarity are crossed (Orange Pol. in CN-2 colomnn)  
**Notes:** +5Volts Power Max is 2Amp (C-C protection & Pwr\_Enable by MIC2505YM)  
LVTTL Inputs are +5V tolerent and 24Volts protected