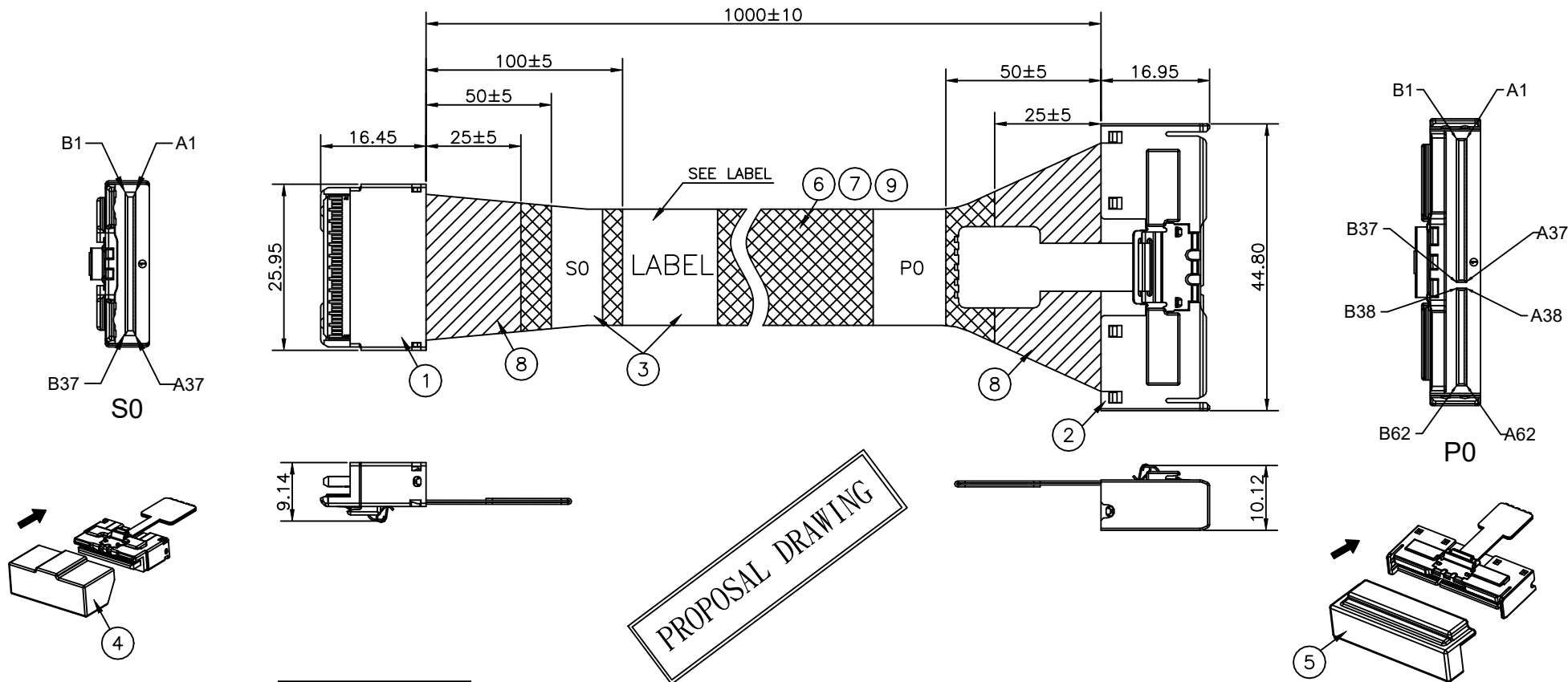


- NOTES:
1. ALL CABLE 100% OPEN, SHORT, MISS WIRE & TRANSIENT FAULT TEST.
 2. CONDUCTIVE RESISTANCE: 2Ω MAX.
 3. INSULATION RESISTANCE: 10MΩ MIN WITH 200Vdc AT 10ms.
 4. HIGH FREQUENCY TEST MUST COMPLY WITH PCIe GEN6 REQUIREMENT.
CONNECTOR IMPEDANCE: 85Ω ±15Ω
CABLE IMPEDANCE: 85Ω ±10Ω
 5. MEET SAS4 STANDARD.
 6. ALL MATERIAL AND PROCESS MUST BE MEET THE REQUIREMENT OF RoHS2.0.

REVSIONS					
ECN NO.	REV.	DESCRIPTIONS	CHECKED	APPROVED	DATE
xxx	5	CORRECT LABLE INFORMATION	Wei, Chang	Wei, Chang	01/20/2025
xxx	6	UPDATE THE INFORMATION	Ihung, Lee	Ihung, Lee	02/20/2025
xxx	7	UPDATE WIRING DIAGRAM	Ihung, Lee	Ihung, Lee	03/18/2025



Follow Drawing ver.
Manufactured Date

UBM-1x8 MCIO to 1x16 MCIO
GENESIS PART NUMBER
320-10813-01
GEN6-REV X
MFD DD/MM/YY
85 ohm

SI report QRcode

DETAIL LABEL

ITEM	DESCRIPTION	Q'TY	UNIT
1	MCIO 74P STRAIGHT TYPE 85Ω.	1	PCS
2	MCIO 124P STRAIGHT TYPE 85Ω.	1	PCS
3	LABEL.	2	PCS
4	MCIO DUST COVER.(74P)	1	PCS
5	MCIO DUST COVER.(124P)	1	PCS
6	HIGH SPEED CABLE, 85Ω, 30AWG.	A/R	MM
7	WIRE.(CABLE 30AWG)	A/R	MM
8	ACETATE TAPE COLOR: BLACK.	A/R	MM
9	EXPANDO TUBE. COLOR: RED	A/R	MM

QUALITY SYMBOLS
MAJOR Ⓢ
CRITICAL Ⓢ
GENERAL TOLERANCES
(UNLESS SPECIFIED)
X. ±0.5
.X ±0.25
.XX ±0.15
.XXX ±0.1
ANGLES ±2°

DRAWN BY
Rex, Huang
CHECKED BY
Ihung, Lee
APPROVED BY
Ihung, Lee
UNITS
mm
SCALE
1 : 1
DATE
25/03/18
DATE
25/03/18
DATE
25/03/18
SHEET NO.
1 OF 2

genesis
connected solutions

TITLE
MCIO 74P ST TO 124P ST _L=1.0M
SIZE
A4
GENESIS NO.
320-10813-01
ACES NO.
6H6213L2B11

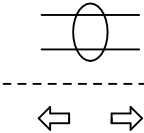
REVISIONS					
ECN NO.	REV.	DESCRIPTIONS	CHECKED	APPROVED	DATE
xxx	5	CORRECT LABE INFORMATION	Wei, Chang	Wei, Chang	01/20/2025
xxx	6	UPDATE THE INFORMATION	Ihung, Lee	Ihung, Lee	02/20/2025
xxx	7	UPDATE WIRING DIAGRAM	Ihung, Lee	Ihung, Lee	03/18/2025

CONNECTOR PIN NO.	CONNECTOR SIGNAL	CONNECTOR PIN NO.	CONNECTOR SIGNAL
A1	GND	B1	GND
A2	PERp0/Rx0+	B2	PETp0/Tx0+
A3	PERn0/Rx0-	B3	PETn0/Tx0-
A4	GND	B4	GND
A5	PERp1/Rx1+	B5	PETp1/Tx1+
A6	PERn1/Rx1-	B6	PETn1/Tx1-
A7	GND	B7	GND
A8	FLEXIO9_A/BP_TYPEA	B8	SB7A/BP_TYPEA
A9	FLEXIO0_A/2WIRE_RESETA#	B9	SB4A/2WIRE_RESETA#
A10	GND/SB3A	B10	GND/SB3A
A11	RCLK_Ap/REFCLKA+	B11	REFCLKA+
A12	RCLK_An/REFCLKA-	B12	REFCLKA-
A13	GND	B13	GND
A14	PERp2/Rx2+	B19	GND
A15	PERn2/Rx2-	B20	PETp4/Tx4+
A16	GND	B21	PETn4/Tx4-
A17	PERp3/Rx3+	B22	GND
A18	PERn3/Rx3-	B23	PETp5/Tx5+
A19	GND	B24	PETn5/Tx5-
A20	GND	B25	GND
A21	PERp4/Rx4+	B38	GND
A22	PERn4/Rx4-	B39	PETp8/Tx8+
A23	GND	B40	PETn8/Tx8-
A24	PERp5/Rx5+	B41	GND
A25	PERn5/Rx5-	B42	PETp9/Tx9+
A26	FLEXIO1_A/BP_TYPEB	B43	PETn9/Tx9-
A27	FLEXIO2_A/2WIRE_RESETB#	B44/(B50)	GND
A28	GND/SB3B		NC
A29	FLEXIO7_A/REFCLKB+		NC
A30	FLEXIO8_A/REFCLKB-		NC
A31	GND		NC
A32	PERp6/Rx6+	B50	GND
A33	PERn6/Rx6-	B51	PETp12/Tx12+
A34	GND	B52	PETn12/Tx12-
A35	PERp7/Rx7+	B53	GND
A36	PERn7/Rx7-	B54	PETp13/Tx13+
A37	GND	B55	PETn13/Tx13-
		B56	GND

CONNECTOR PIN NO.	CONNECTOR SIGNAL	CONNECTOR PIN NO.	CONNECTOR SIGNAL
B1	GND	A1	GND
B2	PETp0/Tx0+	A2	PERp0/Rx0+
B3	PETn0/Tx0-	A3	PERn0/Rx0-
B4	GND	A4	GND
B5	PETp1/Tx1+	A5	PERp1/Rx1+
B6	PETn1/Tx1-	A6	PERn1/Rx1-
B7	GND	A7	GND
B8	2WCL_A/2W-CLKA	A8	SB0A/2W-CLKA
B9	2WDA_A/2W-DATAA	A9	SB1A/2W-DATAA
B10	GND/SB2A	A10	GND/SB2A
B11	PERST_N_A/PERSTA#	A11	SB5A/PERSTA#
B12	PRPE_A/CPRSNTA#	A12	SB6A/CPRSNTA#
B13	GND	A13	GND
B14	GND	A19	GND
B16	PETp2/Tx2+	A20	PERp4/Rx4+
B17	PETn2/Tx2-	A21	PERn4/Rx4-
B18	GND	A22	GND
B19	PETp3/Tx3+	A23	PERp5/Rx5+
B20	PETn3/Tx3-	A24	PERn5/Rx5-
B21	GND	A25	GND
B22	GND	A38	GND
B23	PETp4/Tx4+	A39	PERp8/Rx8+
B24	PETn4/Tx4-	A40	PERn8/Rx8-
B25	GND	A41	GND
B26	FLEXIO3_A/2W-CLKB	A42	PERp9/Rx9+
B27	FLEXIO4_A/2W-DATAB	A43	PERn9/Rx9-
B28	GND/SB2B	A44	GND
B29	FLEXIO5_A/PERSTB#		NC
B30	FLEXIO6_A/CPRSNTB#		NC
B31	GND		NC
B32	PETp6/Tx6+	A50	GND
B33	PETn6/Tx6-	A51	PERp12/Rx12+
B34	GND	A52	PERn12/Rx12-
B35	PETp7/Tx7+	A53	GND
B36	PETn7/Tx7-	A54	PERp13/Rx13+
		A55	PERn13/Rx13-
		A56	GND

NOTES:

1. Bp_Type in S0 is pulled to VDD.
2. Bp_Type is not routed through the cable. P0 Sideband A is pulled to ground via 20 kohm. Sideband B is not pulled to ground.



HIGH-SPEED SERIAL
DIFFERENTIAL PAIRS

SIGNAL RETURN
SIDEBAND SIGNAL

QUALITY SYMBOLS MAJOR CRITICAL GENERAL TOLERANCES (UNLESS SPECIFIED) X. ± 0.5 .X ± 0.25 .XX ± 0.15 .XXX ± 0.1 ANGLES $\pm 2^\circ$	DRAWN BY Rex, Huang	DATE 25/03/18		
	CHECKED BY Ihung, Lee	DATE 25/03/18		
	APPROVED BY Ihung, Lee	DATE 25/03/18	TITLE MCIO 74P ST TO 124P ST _L=1.0M	
	UNITS mm		SIZE A4	GENESIS NO. 320-10813-01
SCALE 1 : 1	SHEET NO. 2 OF 2	REV 7	ACES NO. 6H6213L2B11	