

PIN COUNT TOPO PRODUCTION MAINBOARD to SGMII FMC1 AND FMC2												
MAINBOARD			SGMII			MAINBOARD			SGMII			
FMC1	A1	GND	FMC1	A1	GND	FMC2	A1	GND	FMC2	A1	GND	
	A2	EXT_V7_N<25>		A2	CTP_N<19>		A2	EXT_K7<1>		A2	EXT_K7<1>	
	A3	EXT_V7_P<25>		A3	CTP_P<19>		A3	EXT_K7<9>		A3	MDIO_SDA	
	A4	GND		A4	GND		A4	GND		A4	GND	
	A5	GND		A5	GND		A5	GND		A5	GND	
	A6	EXT_V7_N<23>		A6	CTP_N<17>		A6	EXT_K7<20>		A6	MDC_SCL	
	A7	EXT_V7_P<23>		A7	CTP_P<17>		A7	EXT_K7<22>		A7	INT_B	
	A8	GND		A8	GND		A8	GND		A8	GND	
	A9	GND		A9	GND		A9	GND		A9	GND	
	A10	EXT_V7_N<28>		A10	CTP_N<22>		A10	EXT_K7<21>		A10	CRS	
	A11	EXT_V7_P<28>		A11	CTP_P<22>		A11	EXT_K7<45>		A11	COL	
	A12	GND		A12	GND		A12	GND		A12	GND	
	A13	GND		A13	GND		A13	GND		A13	GND	
	A14	EXT_V7_N<33>		A14	CTP_N<27>		A14	EXT_K7<17>		A14	RX_CLK	
	A15	EXT_V7_P<33>		A15	CTP_P<27>		A15	EXT_K7<11>		A15	RX_ER	
	A16	GND		A16	GND		A16	GND		A16	GND	
	A17	GND		A17	GND		A17	GND		A17	GND	
	A18	EXT_V7_P<36>		A18	CTP_P<30>		A18	EXT_K7<3>		A18	DS2411	
	A19	EXT_V7_N<36>		A19	CTP_N<30>		A19	EXT_K7<10>		A19	RX_DV	
	A20	GND		A20	GND		A20	GND		A20	GND	
	A21	GND		A21	GND		A21	GND		A21	GND	
	A22	EXT_V7_P<40>					A22	EXT_K7<15>		A22	RXD0	
	A23	EXT_V7_N<40>					A23	EXT_K7<16>		A23	RXD1	
	A24	GND		A24	GND		A24	GND		A24	GND	
	A25	GND		A25	GND		A25	GND		A25	GND	
	A26	EXT_V7_P<43>					A26	EXT_K7<29>		A26	RXD2	
	A27	EXT_V7_N<43>					A27	EXT_K7<26>		A27	RXD3	
	A28	GND		A28	GND		A28	GND		A28	GND	
	A29	GND		A29	GND		A29	GND		A29	GND	
	A30	EXT_V7_P<38>					A30	EXT_K7<36>		A30	RXD4	
	A31	EXT_V7_N<38>					A31	EXT_K7<33>		A31	RXD5	
	A32	GND		A32	GND		A32	GND		A32	GND	

	A33	GND		A33	GND
	A34	EXT_V7_P<35>		A34	CTP_P<29>
	A35	EXT_V7_N<35>		A35	CTP_N<29>
	A36	GND		A36	GND
	A37	GND		A37	GND
	A38	EXT_V7_N<31>		A38	CTP_N<25>
	A39	EXT_V7_P<31>		A39	CTP_P<25>
	A40	GND		A40	GND
	B1	UNNAMED_1_FMC_I38_B1		B1	DAQ
	B2	GND		B2	GND
	B3	GND		B3	GND
	B4	EXT_V7_N<24>		B4	CTP_N<18>
	B5	EXT_V7_P<24>		B5	CTP_P<18>
	B6	GND		B6	GND
	B7	GND		B7	GND
	B8	EXT_V7_P<27>		B8	CTP_P<21>
	B9	EXT_V7_N<27>		B9	CTP_N<21>
	B10	GND		B10	GND
	B11	GND		B11	GND
	B12	EXT_V7_N<32>		B12	CTP_N<26>
	B13	EXT_V7_P<32>		B13	CTP_P<26>
	B14	GND		B14	GND
	B15	GND		B15	GND
	B16	EXT_V7_N<37>		B16	CTP_N<31>
	B17	EXT_V7_P<37>		B17	CTP_P<31>
	B18	GND		B18	GND
	B19	GND		B19	GND
	B20	EXT_V7_N<42>			
	B21	EXT_V7_P<42>			
	B22	GND		B22	GND
	B23	GND		B23	GND
	B24	EXT_V7_P<39>			
	B25	EXT_V7_N<39>			
	B26	GND		B26	GND

	A33	GND		A33	GND
	A34	EXT_K7<40>		A34	RXD6
	A35	EXT_K7<42>		A35	RXD7
	A36	GND		A36	GND
	A37	GND		A37	GND
	A38	EXT_K7<41>		A38	GTx_CLK
	A39	EXT_K7<2>		A39	EXT_K7<2>
	A40	GND		A40	GND
	B1	EXT_CPLD<8>			
	B2	GND		B2	GND
	B3	GND		B3	GND
	B4	EXT_K7<5>		B4	TX_ER
	B5	EXT_K7<14>		B5	TX_EN
	B6	GND		B6	GND
	B7	GND		B7	GND
	B8	EXT_K7<25>		B8	TXD0
	B9	EXT_K7<35>		B9	TXD1
	B10	GND		B10	GND
	B11	GND		B11	GND
	B12	EXT_K7<24>		B12	TXD2
	B13	EXT_K7<23>		B13	TXD3
	B14	GND		B14	GND
	B15	GND		B15	GND
	B16	EXT_K7<49>		B16	EXT_K7<49>
	B17	EXT_K7<31>		B17	TXD4
	B18	GND		B18	GND
	B19	GND		B19	GND
	B20	EXT_K7<6>		B20	TXD5
	B21	EXT_K7<4>		B21	TXD6
	B22	GND		B22	GND
	B23	GND		B23	GND
	B24	EXT_K7<28>		B24	TXD7
	B25	EXT_K7<32>		B25	TX_CLK
	B26	GND		B26	GND

	B27	GND		B27	GND
	B28	EXT_V7_N<41>			
	B29	EXT_V7_P<41>			
	B30	GND		B30	GND
	B31	GND		B31	GND
	B32	EXT_V7_P<34>		B32	CTP_P<28>
	B33	EXT_V7_N<34>		B33	CTP_N<28>
	B34	GND		B34	GND
	B35	GND		B35	GND
	B36	EXT_V7_P<30>		B36	CTP_P<24>
	B37	EXT_V7_N<30>		B37	CTP_N<24>
	B38	GND		B38	GND
	B39	GND		B39	GND
	B40	UNNAMED_1_FMC_I38_B40		B40	ROD
	C1	GND		C1	GND
	C2	EXT_V7_N<22>		C2	CTP_N<16>
	C3	EXT_V7_P<22>		C3	CTP_P<16>
	C4	GND		C4	GND
	C5	GND		C5	GND
	C6	EXT_V7_N<26>		C6	CTP_N<20>
	C7	EXT_V7_P<26>		C7	CTP_P<20>
	C8	GND		C8	GND
	C9	GND		C9	GND
	C10	EXT_V7_N<29>		C10	CTP_N<23>
	C11	EXT_V7_P<29>		C11	CTP_P<23>
	C12	GND		C12	GND
	C13	GND		C13	GND
	C14	EXT_V7_N<3>		C14	CTP_N<1>
	C15	EXT_V7_P<3>		C15	CTP_P<1>
	C16	GND		C16	GND
	C17	GND		C17	GND
	C18	EXT_V7_N<2>		C18	CTP_N<0>
	C19	EXT_V7_P<2>		C19	CTP_P<0>
	C20	GND		C20	GND

	B27	GND		B27	GND
	B28	EXT_K7<38>			
	B29	EXT_K7<34>			
	B30	GND		B30	GND
	B31	GND		B31	GND
	B32	EXT_K7<44>			
	B33	EXT_K7<43>			
	B34	GND		B34	GND
	B35	GND		B35	GND
	B36	EXT_K7<39>			
	B37	EXT_K7<48>		B37	EXT_K7<48>
	B38	GND		B38	GND
	B39	GND		B39	GND
	B40	EXT_K7<47>			
	C1	GND		C1	GND
	C2	EXT_K7<13>			
	C3	EXT_CPLD<9>			
	C4	GND		C4	GND
	C5	GND		C5	GND
	C6	EXT_K7<19>			
	C7	EXT_K7<27>			
	C8	GND		C8	GND
	C9	GND		C9	GND
	C10	EXT_K7<46>			
	C11	EXT_CPLD<1>			
	C12	GND		C12	GND
	C13	GND		C13	GND
	C14	EXT_K7<12>			
	C15	EXT_K7<7>			
	C16	GND		C16	GND
	C17	GND		C17	GND
	C18	EXT_K7<0>		C18	PHY_RESET
	C19	EXT_K7<8>			
	C20	GND		C20	GND

	C21	GND		C21	GND
	C22	EXT_V7_P<5>		C22	CTP_P<3>
	C23	EXT_V7_N<5>		C23	CTP_N<3>
	C24	GND		C24	GND
	C25	GND		C25	GND
	C26	EXT_V7_N<10>		C26	CTP_N<8>
	C27	EXT_V7_P<10>		C27	CTP_P<8>
	C28	GND		C28	GND
	C29	GND		C29	GND
	C30	EXT_V7_N<13>		C30	CTP_N<11>
	C31	EXT_V7_P<13>		C31	CTP_P<11>
	C32	GND		C32	GND
	C33	GND		C33	GND
	C34	GND		C34	GND
	C35	12V		C35	+12V
	C36	GND		C36	GND
	C37	12V		C37	+12V
	C38	GND		C38	GND
	C39	3V3		C39	3V3
	C40	GND		C40	GND
	D1			D1	
	D2	GND		D2	GND
	D3	GND		D3	GND
	D4	EXT_V7_P<1>		D4	CTP_PARITY_P
	D5	EXT_V7_N<1>		D5	CTP_PARITY_N
	D6	GND		D6	GND
	D7	GND		D7	GND
	D8	EXT_V7_N<0>		D8	CTP_CLK_N
	D9	EXT_V7_P<0>		D9	CTP_CLK_P
	D10	GND		D10	GND
	D11	GND		D11	GND
	D12	EXT_V7_N<8>		D12	CTP_N<6>
	D13	EXT_V7_P<8>		D13	CTP_P<6>
	D14	GND		D14	GND

	C21	GND		C21	GND
	C22	EXT_CLK_P<3>			
	C23	EXT_CLK_N<3>			
	C24	GND		C24	GND
	C25	GND		C25	GND
	C26	EXT_K7<30>			
	C27				
	C28	GND		C28	GND
	C29	GND		C29	GND
	C30	EXT_K7<37>			
	C31	EXT_K7<18>			
	C32	GND		C32	GND
	C33	GND		C33	GND
	C34	GND		C34	GND
	C35	2V5			
	C36	GND		C36	GND
	C37	2V5			
	C38	GND			
	C39	3V3		C39	3V3
	C40	GND		C40	GND
	D1	EXT_CPLD<7>			
	D2	GND		D2	GND
	D3	GND		D3	GND
	D4	EXT_CPLD<2>			
	D5	EXT_CPLD<10>			
	D6	GND		D6	GND
	D7	GND		D7	GND
	D8	EXT_CPLD<15>			
	D9	EXT_CPLD<12>			
	D10	GND		D10	GND
	D11	GND		D11	GND
	D12	EXT_CPLD<3>			
	D13	EXT_CPLD<5>			
	D14	GND		D14	GND

	D15	GND		D15	GND
	D16	EXT_V7_N<4>		D16	CTP_N<2>
	D17	EXT_V7_P<4>		D17	CTP_P<2>
	D18	GND		D18	GND
	D19	GND		D19	GND
	D20	EXT_V7_N<9>		D20	CTP_N<7>
	D21	EXT_V7_P<9>		D21	CTP_P<7>
	D22	GND		D22	GND
	D23	GND		D23	GND
	D24	EXT_V7_N<7>		D24	CTP_N<5>
	D25	EXT_V7_P<7>		D25	CTP_P<5>
	D26	GND		D26	GND
	D27	GND		D27	GND
	D28	GND		D28	GND
	D29			D29	
	D30			D30	
	D31			D31	
	D32	3V3		D32	3V3
	D33			D33	
	D34			D34	
	D35			D35	
	D36	3V3		D36	3V3
	D37	GND		D37	GND
	D38	3V3		D38	3V3
	D39	GND		D39	GND
	D40	3V3		D40	3V3
	E1	GND		E1	GND
	E2	EXT_V7_P<12>		E2	CTP_P<10>
	E3	EXT_V7_N<12>		E3	CTP_N<10>
	E4	GND		E4	GND
	E5	GND		E5	GND
	E6	EXT_V7_N<6>		E6	CTP_N<4>
	E7	EXT_V7_P<6>		E7	CTP_P<4>
	E8	GND		E8	GND

	D15	GND		D15	GND
	D16	K7_MGTRX_P<0>		D16	UNNAMED_10_CAPPRT_I84_A
	D17	K7_MGTRX_N<0>		D17	UNNAMED_10_CAPPRT_I85_A
	D18	GND		D18	GND
	D19	GND		D19	GND
	D20	EXT_CLK_P<2>			
	D21	EXT_CLK_N<2>			
	D22	GND		D22	GND
	D23	GND		D23	GND
	D24	EXT_CLK_P<0>			
	D25	EXT_CLK_N<0>			
	D26	GND		D26	GND
	D27	GND		D27	GND
	D28	GND		D28	GND
	D29				
	D30				
	D31				
	D32	3V3		D32	3V3
	D33				
	D34				
	D35				
	D36	3V3		D36	3V3
	D37	GND		D37	GND
	D38	3V3		D38	3V3
	D39	GND		D39	GND
	D40	3V3		D40	3V3
	E1	GND		E1	GND
	E2	K7_MGTRX_N<1>		E2	UNNAMED_10_CAPPRT_I87_A
	E3	K7_MGTRX_P<1>		E3	UNNAMED_10_CAPPRT_I86_A
	E4	GND		E4	GND
	E5	GND		E5	GND
	E6	EXT_CPLD<4>			
	E7	EXT_CPLD<11>			
	E8	GND		E8	GND

	E9	GND		E9	GND
	E10	EXT_V7_N<11>		E10	CTP_N<9>
	E11	EXT_V7_P<11>		E11	CTP_P<9>
	E12	GND		E12	GND
	E13	GND		E13	GND
	E14	EXT_V7_N<15>		E14	CTP_N<13>
	E15	EXT_V7_P<15>		E15	CTP_P<13>
	E16	GND		E16	GND
	E17	GND		E17	GND
	E18	EXT_V7_N<14>		E18	CTP_N<12>
	E19	EXT_V7_P<14>		E19	CTP_P<12>
	E20	GND		E20	GND
	E21	GND		E21	GND
	E22	EXT_V7_N<18>			
	E23	EXT_V7_P<18>			
	E24	GND		E24	GND
	E25	GND		E25	GND
	E26	EXT_V7_N<20>			
	E27	EXT_V7_P<20>			
	E28	GND		E28	GND
	E29	GND		E29	GND
	E30	EXT_V7_N<17>		E30	CTP_N<15>
	E31	EXT_V7_P<17>		E31	CTP_P<15>
	E32	GND		E32	GND
	E33	GND		E33	GND
	E34	EXT_V7_N<19>			
	E35	EXT_V7_P<19>			
	E36	GND		E36	GND
	E37	GND		E37	GND
	E38	EXT_V7_P<21>			
	E39	EXT_V7_N<21>			
	E40	GND		E40	GND
	F1			F1	
	F2	GND		F2	GND

	E9	GND		E9	GND
	E10	EXT_CPLD<14>			
	E11	EXT_CPLD<13>			
	E12	GND		E12	GND
	E13	GND		E13	GND
	E14	EXT_CPLD<6>			
	E15	EXT_CPLD<0>			
	E16	GND		E16	GND
	E17	GND		E17	GND
	E18	EXT_CLK_P<1>			
	E19	EXT_CLK_N<1>			
	E20	GND		E20	GND
	E21	GND		E21	GND
	E22				
	E23				
	E24	GND		E24	GND
	E25	GND		E25	GND
	E26	EXT_CLK_P<4>			
	E27	EXT_CLK_N<4>			
	E28	GND		E28	GND
	E29	GND		E29	GND
	E30	EXT_CLK_P<6>			
	E31	EXT_CLK_N<6>			
	E32	GND		E32	GND
	E33	GND		E33	GND
	E34				
	E35				
	E36	GND		E36	GND
	E37	GND		E37	GND
	E38	MGT8_CLK_P			
	E39	MGT8_CLK_N			
	E40	GND		E40	GND
	F1				
	F2	GND		F2	GND

	F3	GND		F3	GND
	F4	EXT_V7_N<16>		F4	CTP_N<14>
	F5	EXT_V7_P<16>		F5	CTP_P<14>
	F6	GND		F6	GND
	F7	GND		F7	GND
	F8	V7_MGTTX_P<3>			
	F9	V7_MGTTX_N<3>			
	F10	GND		F10	GND
	F11	GND		F11	GND
	F12	V7_MGTTX_P<2>			
	F13	V7_MGTTX_N<2>			
	F14	GND		F14	GND
	F15	GND		F15	GND
	F16	V7_MGTTX_P<1>		F16	MGT_P<1>
	F17	V7_MGTTX_N<1>		F17	MGT_N<1>
	F18	GND		F18	GND
	F19	GND		F19	GND
	F20	V7_MGTTX_P<0>		F20	MGT_P<0>
	F21	V7_MGTTX_N<0>		F21	MGT_N<0>
	F22	GND		F22	GND
	F23	GND		F23	GND
	F24	V7_MGTTX_P<7>			
	F25	V7_MGTTX_N<7>			
	F26	GND		F26	GND
	F27	GND		F27	GND
	F28	V7_MGTTX_P<6>			
	F29	V7_MGTTX_N<6>			
	F30	GND		F30	GND
	F31	GND		F31	GND
	F32	V7_MGTTX_P<5>			
	F33	V7_MGTTX_N<5>			
	F34	GND		F34	GND
	F35	GND		F35	GND
	F36	V7_MGTTX_P<4>		F36	MGT_P<2>

	F3	GND		F3	GND
	F4	K7_MGTRX_P<3>		F4	SGMII_RX_P
	F5	K7_MGTRX_N<3>		F5	SGMII_RX_N
	F6	GND		F6	GND
	F7	GND		F7	GND
	F8	K7_MGTTX_P<3>		F8	SGMII_TX_P
	F9	K7_MGTTX_N<3>		F9	SGMII_TX_N
	F10	GND		F10	GND
	F11	GND		F11	GND
	F12	K7_MGTTX_P<1>			
	F13	K7_MGTTX_N<1>			
	F14	GND		F14	GND
	F15	GND		F15	GND
	F16	FABRIC_CHANNEL_P<3>			
	F17	FABRIC_CHANNEL_N<3>			
	F18	GND		F18	GND
	F19	GND		F19	GND
	F20	SMARTSYNC<1>			
	F21	SMARTSYNC<0>			
	F22	GND		F22	GND
	F23	GND		F23	GND
	F24				
	F25				
	F26	GND		F26	GND
	F27	GND		F27	GND
	F28	EXT_CLK_P<5>			
	F29	EXT_CLK_N<5>			
	F30	GND		F30	GND
	F31	GND		F31	GND
	F32				
	F33				
	F34	GND		F34	GND
	F35	GND		F35	GND
	F36				

	F37	V7_MGTTX_N<4>		F37	MGT_N<2>
	F38	GND		F38	GND
	F39	GND		F39	GND
	F40			F40	
	G1	GND		G1	GND
	G2	BASE_CHANNELTX_P<4>		G2	DA2_P
	G3	BASE_CHANNELTX_N<4>		G3	DA2_N
	G4	GND		G4	GND
	G5	GND		G5	GND
	G6	BASE_CHANNELTX_P<5>		G6	DB2_P
	G7	BASE_CHANNELTX_N<5>		G7	DB2_N
	G8	GND		G8	GND
	G9	GND		G9	GND
	G10	BASE_CHANNELTX_P<7>		G10	DD2_P
	G11	BASE_CHANNELTX_N<7>		G11	DD2_N
	G12	GND		G12	GND
	G13	GND		G13	GND
	G14	BASE_CHANNELTX_P<1>		G14	DB1_P
	G15	BASE_CHANNELTX_N<1>		G15	DB1_N
	G16	GND		G16	GND
	G17	GND		G17	GND
	G18	BASE_CHANNELTX_P<3>		G18	DD1_P
	G19	BASE_CHANNELTX_N<3>		G19	DD1_N
	G20	GND		G20	GND
	G21	GND		G21	GND
	G22				
	G23				
	G24	GND		G24	GND
	G25	GND		G25	GND
	G26				
	G27				
	G28	GND		G28	GND
	G29	GND		G29	GND
	G30			G30	

	F37				
	F38	GND		F38	GND
	F39	GND		F39	GND
	F40	SMARTSYNC<5>			
	G1	GND		G1	GND
	G2	FABRIC_CHANNEL_P<12>			
	G3	FABRIC_CHANNEL_N<12>			
	G4	GND		G4	GND
	G5	GND		G5	GND
	G6	K7_MGTRX_P<2>		G6	UNNAMED_10_CAPPRT_I88_A
	G7	K7_MGTRX_N<2>		G7	UNNAMED_10_CAPPRT_I89_A
	G8	GND		G8	GND
	G9	GND		G9	GND
	G10	K7_MGTTX_P<2>			
	G11	K7_MGTTX_N<2>			
	G12	GND		G12	GND
	G13	GND		G13	GND
	G14	K7_MGTTX_P<0>			
	G15	K7_MGTTX_N<0>			
	G16	GND		G16	GND
	G17	GND		G17	GND
	G18	SMARTSYNC<3>			
	G19	SMARTSYNC<2>			
	G20	GND		G20	GND
	G21	GND		G21	GND
	G22				
	G23				
	G24	GND		G24	GND
	G25	GND		G25	GND
	G26				
	G27				
	G28	GND		G28	GND
	G29	GND		G29	GND
	G30				

	G31			G31	
	G32	GND		G32	GND
	G33	GND		G33	GND
	G34	EXT_K7_N<9>			
	G35	EXT_K7_P<9>			
	G36	GND		G36	GND
	G37	GND		G37	GND
	G38	EXT_K7_P<5>			
	G39	EXT_K7_N<5>			
	G40	GND		G40	GND
	H1				
	H2	GND		H2	GND
	H3	GND		H3	GND
	H4	EXT_K7_P<18>			
	H5	EXT_K7_N<18>			
	H6	GND		H6	GND
	H7	GND		H7	GND
	H8	BASE_CHANNELTX_P<6>		H8	DC2_P
	H9	BASE_CHANNELTX_N<6>		H9	DC2_N
	H10	GND		H10	GND
	H11	GND		H11	GND
	H12	BASE_CHANNELTX_P<0>		H12	DA1_P
	H13	BASE_CHANNELTX_N<0>		H13	DA1_N
	H14	GND		H14	GND
	H15	GND		H15	GND
	H16	BASE_CHANNELTX_P<2>		H16	DC1_P
	H17	BASE_CHANNELTX_N<2>		H17	DC1_N
	H18	GND		H18	GND
	H19	GND		H19	GND
	H20				
	H21				
	H22	GND		H22	GND
	H23	GND		H23	GND
	H24				

	G31				
	G32	GND		G32	GND
	G33	GND		G33	GND
	G34				
	G35				
	G36	GND		G36	GND
	G37	GND		G37	GND
	G38				
	G39				
	G40	GND		G40	GND
	H1				
	H2	GND		H2	GND
	H3	GND		H3	GND
	H4	FABRIC_CHANNEL_P<9>			
	H5	FABRIC_CHANNEL_N<9>			
	H6	GND		H6	GND
	H7	GND		H7	GND
	H8	FABRIC_CHANNEL_P<5>			
	H9	FABRIC_CHANNEL_N<5>			
	H10	GND		H10	GND
	H11	GND		H11	GND
	H12	FABRIC_CHANNEL_P<11>			
	H13	FABRIC_CHANNEL_N<11>			
	H14	GND		H14	GND
	H15	GND		H15	GND
	H16	FABRIC_CHANNEL_P<7>			
	H17	FABRIC_CHANNEL_N<7>			
	H18	GND		H18	GND
	H19	GND		H19	GND
	H20				
	H21				
	H22	GND		H22	GND
	H23	GND		H23	GND
	H24				

	H25				
	H26	GND		H26	GND
	H27	GND		H27	GND
	H28				
	H29				
	H30	GND		H30	GND
	H31	GND		H31	GND
	H32	EXT_K7_N<2>			
	H33	EXT_K7_P<2>			
	H34	GND		H34	GND
	H35	GND		H35	GND
	H36	EXT_K7_P<10>			
	H37	EXT_K7_N<10>			
	H38	GND		H38	GND
	H39	GND		H39	GND
	H40				
	J1	GND		J1	GND
	J2	EXT_K7_P<19>			
	J3	EXT_K7_N<19>			
	J4	GND		J4	GND
	J5	GND		J5	GND
	J6	EXT_K7_P<22>			
	J7	EXT_K7_N<22>			
	J8	GND		J8	GND
	J9	GND		J9	GND
	J10	EXT_K7_P<13>			
	J11	EXT_K7_N<13>			
	J12	GND		J12	GND
	J13	GND		J13	GND
	J14	EXT_K7_P<12>			
	J15	EXT_K7_N<12>			
	J16	GND		J16	GND
	J17	GND		J17	GND
	J18	EXT_K7_P<17>			

	H25				
	H26	GND		H26	GND
	H27	GND		H27	GND
	H28				
	H29				
	H30	GND		H30	GND
	H31	GND		H31	GND
	H32				
	H33				
	H34	GND		H34	GND
	H35	GND		H35	GND
	H36				
	H37				
	H38	GND		H38	GND
	H39	GND		H39	GND
	H40	SMARTSYNC<4>			
	J1	GND		J1	GND
	J2	FABRIC_CHANNEL_P<8>			
	J3	FABRIC_CHANNEL_N<8>			
	J4	GND		J4	GND
	J5	GND		J5	GND
	J6	FABRIC_CHANNEL_P<4>			
	J7	FABRIC_CHANNEL_N<4>			
	J8	GND		J8	GND
	J9	GND		J9	GND
	J10	FABRIC_CHANNEL_P<15>			
	J11	FABRIC_CHANNEL_N<15>			
	J12	GND		J12	GND
	J13	GND		J13	GND
	J14	FABRIC_CHANNEL_P<6>			
	J15	FABRIC_CHANNEL_N<6>			
	J16	GND		J16	GND
	J17	GND		J17	GND
	J18	FABRIC_CHANNEL_N<1>			

J19	EXT_K7_N<17>			
J20	GND		J20	GND
J21	GND		J21	GND
J22	EXT_K7_N<16>			
J23	EXT_K7_P<16>			
J24	GND		J24	GND
J25	GND		J25	GND
J26	EXT_K7_N<14>			
J27	EXT_K7_P<14>			
J28	GND		J28	GND
J29	GND		J29	GND
J30	EXT_K7_N<7>			
J31	EXT_K7_P<7>			
J32	GND		J32	GND
J33	GND		J33	GND
J34	EXT_K7_N<1>			
J35	EXT_K7_P<1>			
J36	GND		J36	GND
J37	GND		J37	GND
J38	EXT_K7_P<4>			
J39	EXT_K7_N<4>			
J40	GND		J40	GND
K1				
K2	GND		K2	GND
K3	GND		K3	GND
K4	EXT_K7_P<11>			
K5	EXT_K7_N<11>			
K6	GND		K6	GND
K7	GND		K7	GND
K8	EXT_K7_P<20>			
K9	EXT_K7_N<20>			
K10	GND		K10	GND
K11	GND		K11	GND
K12	EXT_K7_P<21>			

J19	FABRIC_CHANNEL_P<1>			
J20	GND		J20	GND
J21	GND		J21	GND
J22				
J23				
J24	GND		J24	GND
J25	GND		J25	GND
J26				
J27				
J28	GND		J28	GND
J29	GND		J29	GND
J30				
J31				
J32	GND		J32	GND
J33	GND		J33	GND
J34				
J35				
J36	GND		J36	GND
J37	GND		J37	GND
J38				
J39				
J40	GND		J40	GND
K1				
K2	GND		K2	GND
K3	GND		K3	GND
K4	FABRIC_CHANNEL_P<13>			
K5	FABRIC_CHANNEL_N<13>			
K6	GND		K6	GND
K7	GND		K7	GND
K8	FABRIC_CHANNEL_P<14>			
K9	FABRIC_CHANNEL_N<14>			
K10	GND		K10	GND
K11	GND		K11	GND
K12	FABRIC_CHANNEL_P<10>			

	K13	EXT_K7_N<21>			
	K14	GND		K14	GND
	K15	GND		K15	GND
	K16	EXT_K7_P<23>			
	K17	EXT_K7_N<23>			
	K18	GND		K18	GND
	K19	GND		K19	GND
	K20	EXT_K7_P<8>			
	K21	EXT_K7_N<8>			
	K22	GND		K22	GND
	K23	GND		K23	GND
	K24	EXT_K7_N<15>			
	K25	EXT_K7_P<15>			
	K26	GND		K26	GND
	K27	GND		K27	GND
	K28	EXT_K7_P<6>			
	K29	EXT_K7_N<6>			
	K30	GND		K30	GND
	K31	GND		K31	GND
	K32	EXT_K7_P<0>			
	K33	EXT_K7_N<0>			
	K34	GND		K34	GND
	K35	GND		K35	GND
	K36	EXT_K7_N<3>			
	K37	EXT_K7_P<3>			
	K38	GND		K38	GND
	K39	GND		K39	GND
	K40				

	K13	FABRIC_CHANNEL_N<10>			
	K14	GND		K14	GND
	K15	GND		K15	GND
	K16	FABRIC_CHANNEL_P<2>			
	K17	FABRIC_CHANNEL_N<2>			
	K18	GND		K18	GND
	K19	GND		K19	GND
	K20	FABRIC_CHANNEL_N<0>			
	K21	FABRIC_CHANNEL_P<0>			
	K22	GND		K22	GND
	K23	GND		K23	GND
	K24				
	K25				
	K26	GND		K26	GND
	K27	GND		K27	GND
	K28				
	K29				
	K30	GND		K30	GND
	K31	GND		K31	GND
	K32				
	K33				
	K34	GND		K34	GND
	K35	GND		K35	GND
	K36				
	K37				
	K38	GND		K38	GND
	K39	GND		K39	GND
	K40				