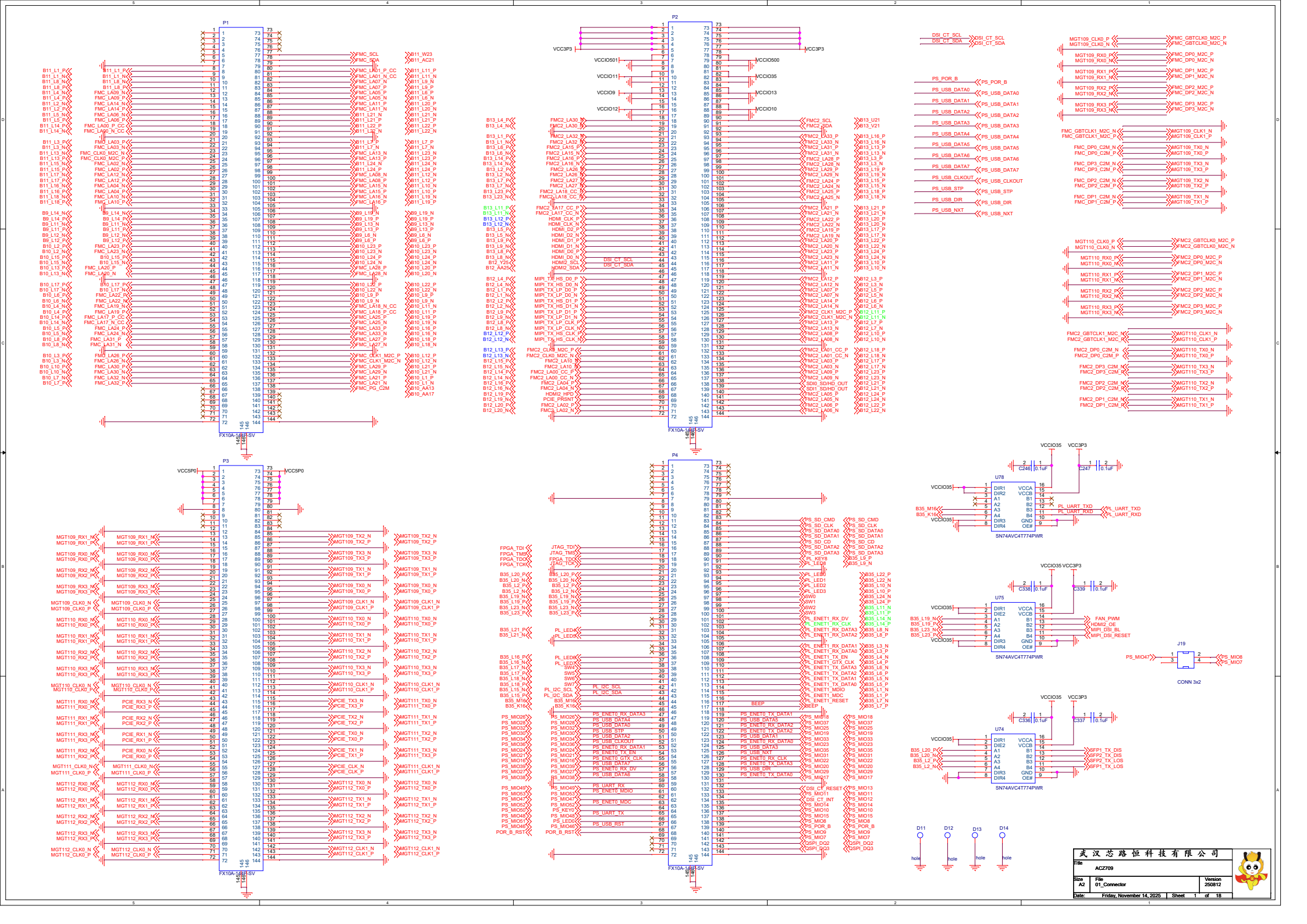
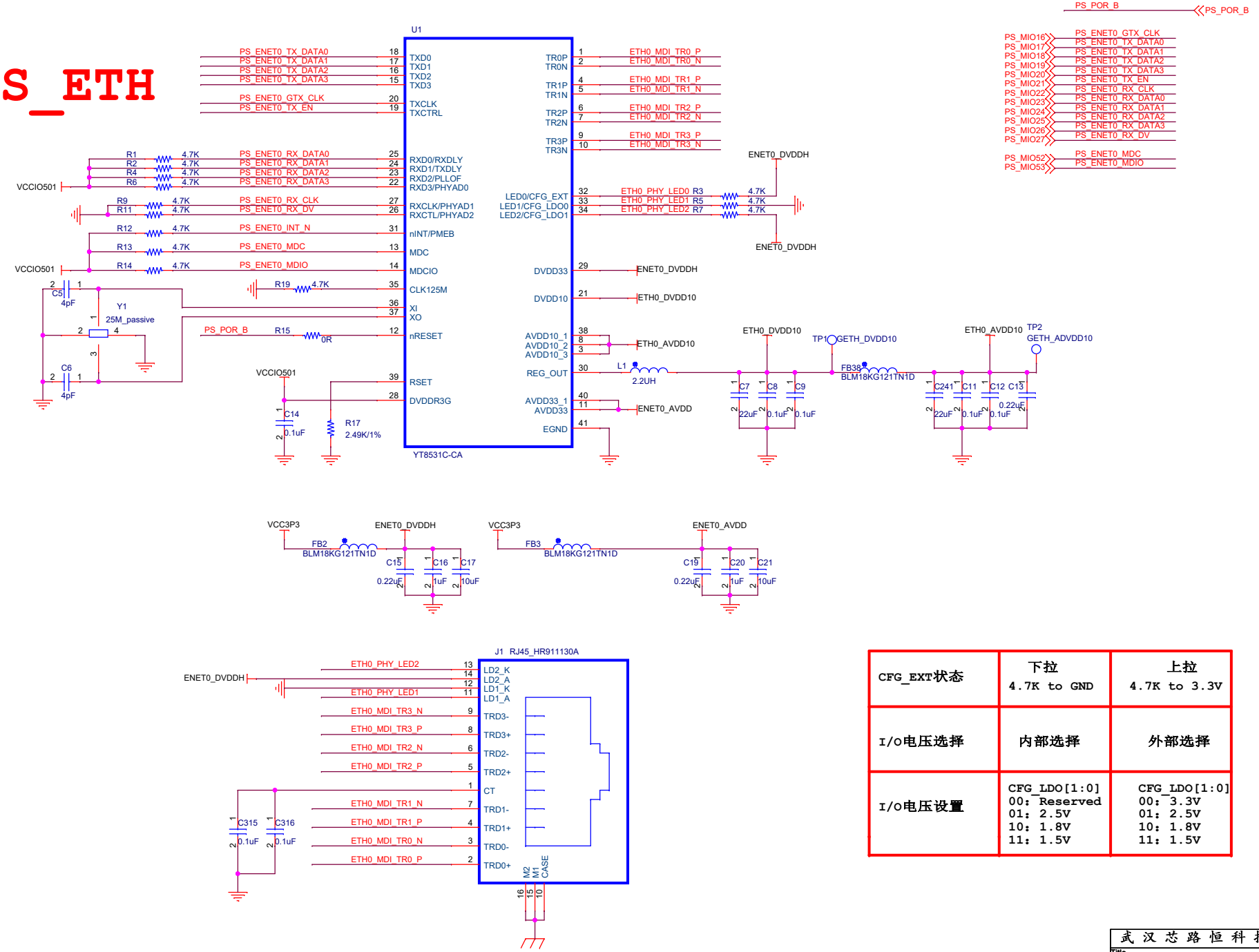
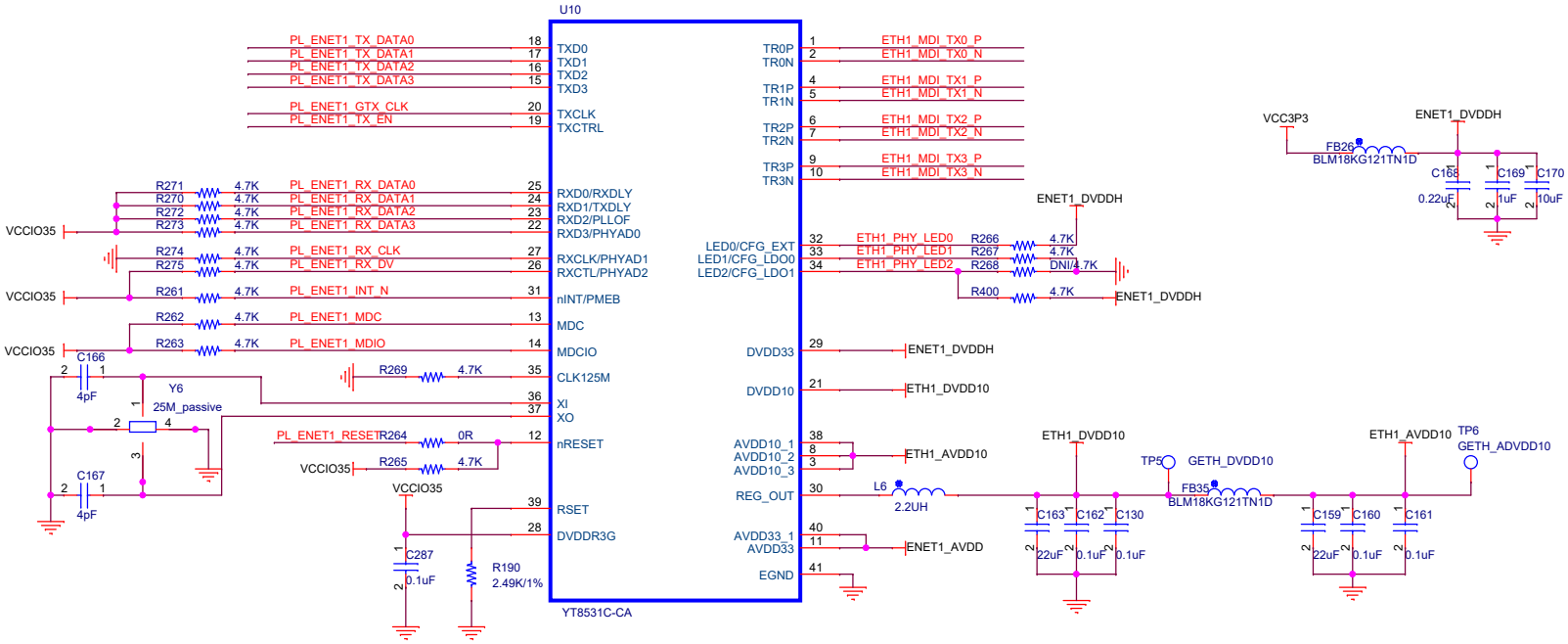

P1
FX10A-140P-SV
P2
FX10A-140P-SV
P3
FX10A-140P-SV
P4
FX10A-140P-SV
SN74AVC4T774PWR
SN74AVC4T774PWR
SN74AVC4T774PWR
CONN 3x2
武汉芯路恒科技有限公司
ACZ709
Friday, November 14, 2025

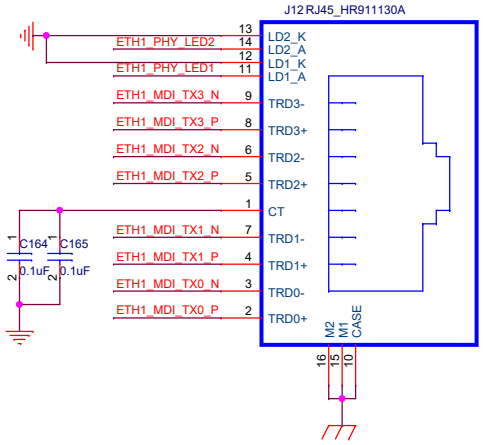
PS_ETH

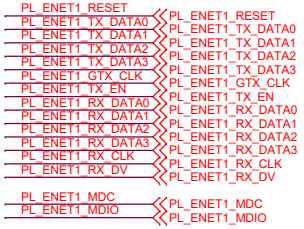


CFG_EXT状态	下拉 4.7K to GND	上拉 4.7K to 3.3V
I/O电压选择	内部选择	外部选择
I/O电压设置	CFG_LDO[1:0] 00: Reserved 01: 2.5V 10: 1.8V 11: 1.5V	CFG_LDO[1:0] 00: 3.3V 01: 2.5V 10: 1.8V 11: 1.5V

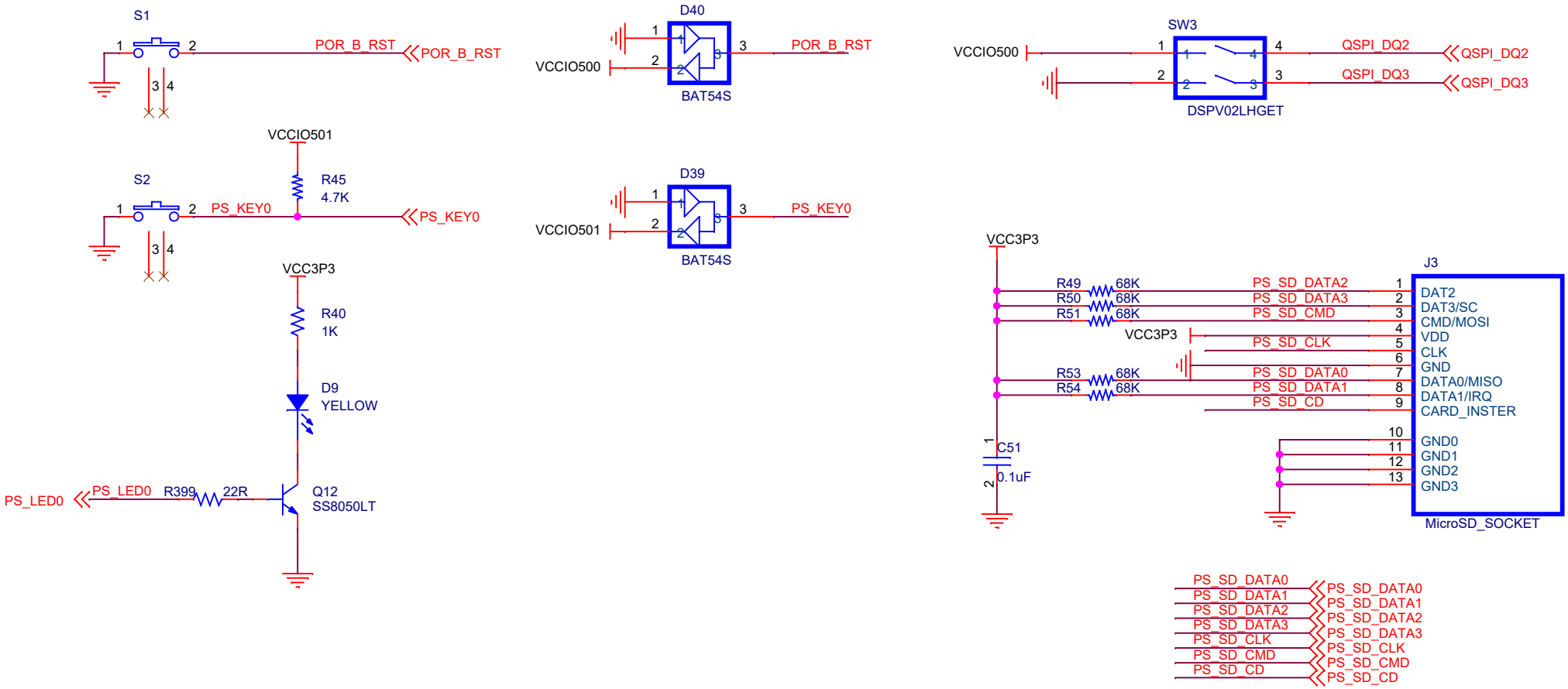
武汉芯路恒科技有限公司			
Title: ACZ709			
Size: A3	File: 02_PS_ETH		Version: 250812
Date: Friday, November 14, 2025	Sheet 2 of 18		



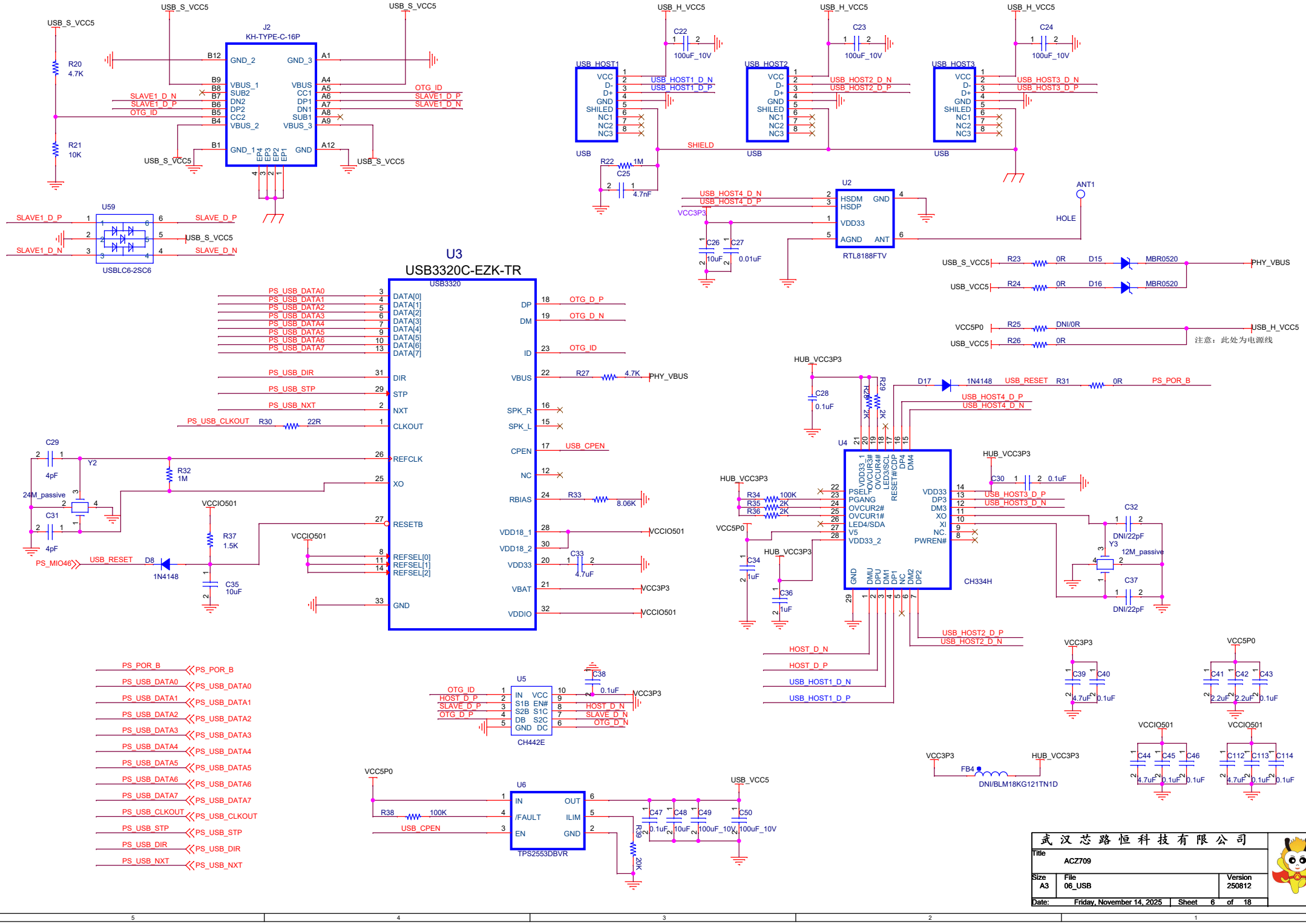


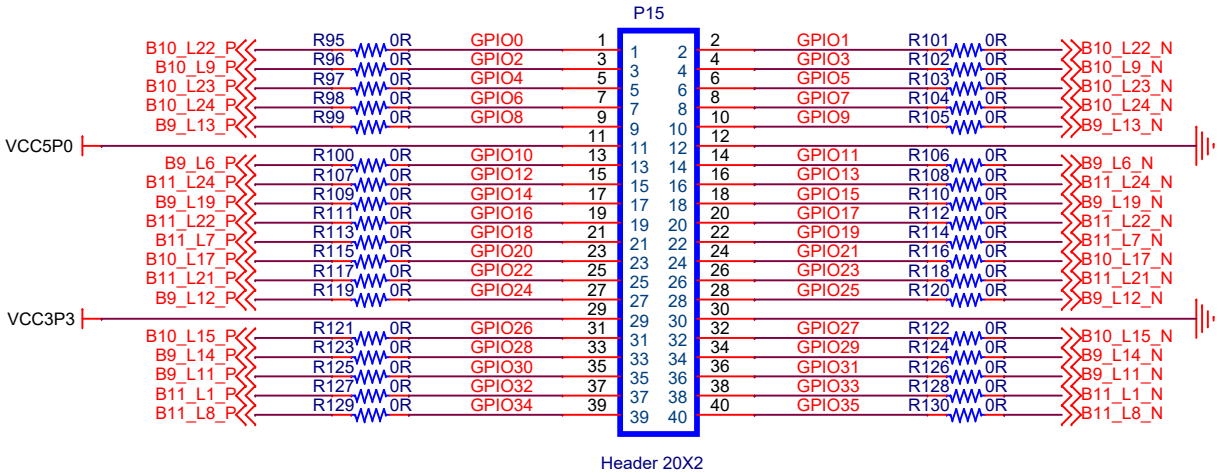


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Title: ACZ709		
Size: A3	File: 03_PL_ETH	Version: 250812
Date: Wednesday, December 03, 2025	Sheet 3 of 18	



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Title: ACZ709		
Size: A4	File: 04_PS_Other	Version: 250812
Date: Friday, November 14, 2025	Sheet 4 of 18	

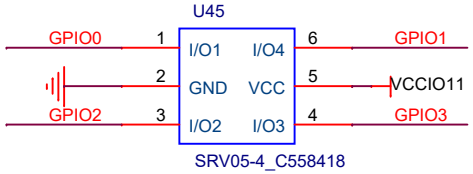

USB_S_VCC5
J2
KH-TYPE-C-16P
R20
4.7K
R21
10K
SLAVE1_D_N
SLAVE1_D_P
OTG_ID
U59
USBLC6-2SC6
SLAVE_D_P
SLAVE_D_N
USB_H_VCC5
USB_HOST1
USB_HOST2
USB_HOST3
C22
C23
C24
100uF_10V
USB_HOST1_D_N
USB_HOST1_D_P
USB_HOST2_D_N
USB_HOST2_D_P
USB_HOST3_D_N
USB_HOST3_D_P
SHIELD
USB
R22
1M
C25
4.7nF
U2
RTL8188FTV
USB_HOST4_D_N
USB_HOST4_D_P
VCC3P3
C26
10uF
C27
0.01uF
ANT1
HOLE
U3
USB3320C-EZK-TR
USB3320
PS_USB_DATA0
PS_USB_DATA1
PS_USB_DATA2
PS_USB_DATA3
PS_USB_DATA4
PS_USB_DATA5
PS_USB_DATA6
PS_USB_DATA7
PS_USB_DIR
PS_USB_STP
PS_USB_NXT
PS_USB_CLKOUT
R30
22R
C29
4pF
Y2
24M_passive
C31
R32
1M
VCCIO501
R37
1.5K
C35
10uF
PS_MIO46
USB_RESET
D8
1N4148
REFSEL[0]
REFSEL[1]
REFSEL[2]
DP
DM
ID
VBUS
SPK_R
SPK_L
CPEN
NC
RBIAS
VDD18_1
VDD18_2
VDD33
VBAT
VDDIO
OTG_D_P
OTG_D_N
OTG_ID
R27
4.7K
PHY_VBUS
USB_CPEN
R33
8.06K
C33
4.7uF
VCC3P3
VCCIO501
R23
0R
D15
MBR0520
R24
0R
D16
MBR0520
R25
DNI/0R
R26
0R
VCC5P0
注意：此处为电源线
HUB_VCC3P3
C28
0.1uF
R28
2K
R29
2K
D17
1N4148
USB_RESET
R31
0R
PS_POR_B
U4
CH334H
PSELF
PGANG
OVCUR2#
OVCUR1#
LED4/SDA
V5
VDD33_2
PWREN#
R34
100K
R35
2K
R36
2K
C34
1uF
C36
1uF
C30
0.1uF
C32
DNI/22pF
Y3
12M_passive
C37
DNI/22pF
HOST_D_N
HOST_D_P
USB_HOST1_D_N
USB_HOST1_D_P
USB_HOST2_D_P
USB_HOST2_D_N
U5
CH442E
C38
0.1uF
HOST_D_N
SLAVE_D_N
OTG_D_N
C39
C40
4.7uF
0.1uF
C41
C42
C43
2.2uF
2.2uF
0.1uF
VCC5P0
FB4
DNI/BLM18KG121TN1D
C44
C45
C46
4.7uF
0.1uF
0.1uF
C112
C113
C114
4.7uF
0.1uF
0.1uF
U6
TPS2553DBVR
R38
100K
R39
20K
C47
0.1uF
C48
10uF
C49
100uF_10V
C50
100uF_10V
武汉芯路恒科技有限公司
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06_USB
Version
250812
Date:
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18

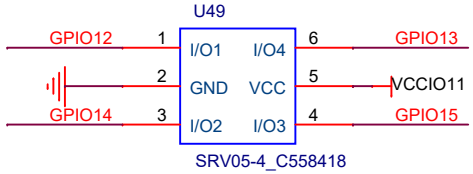


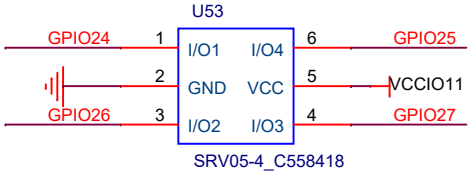
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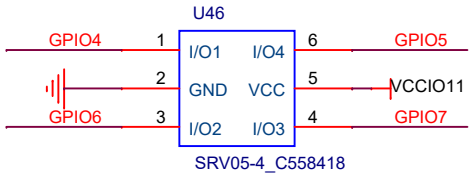
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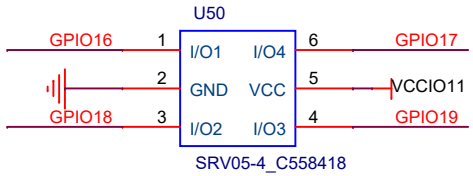
兼容DE2的通用扩展接口

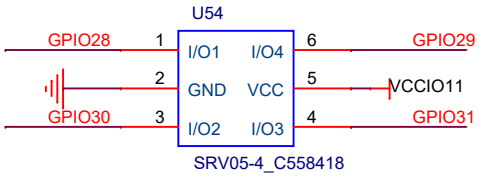


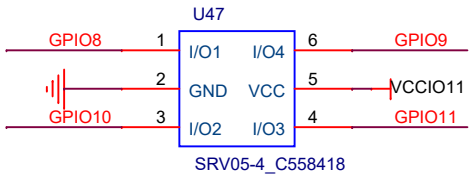


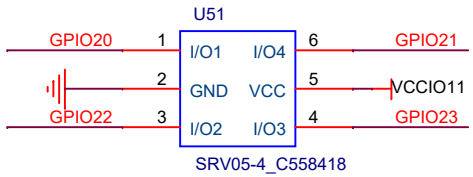


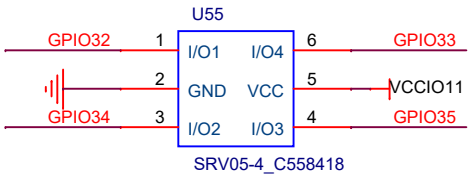




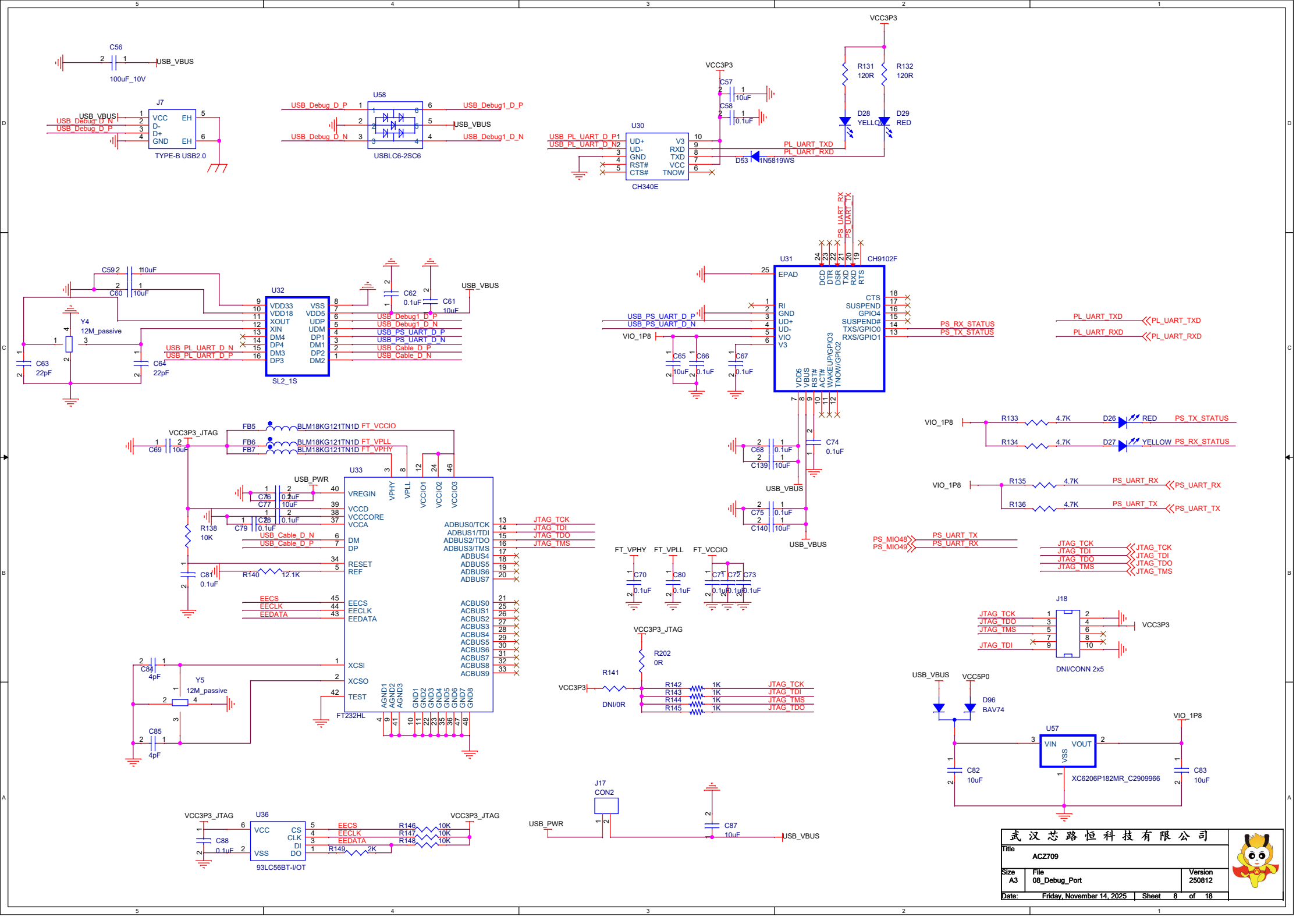






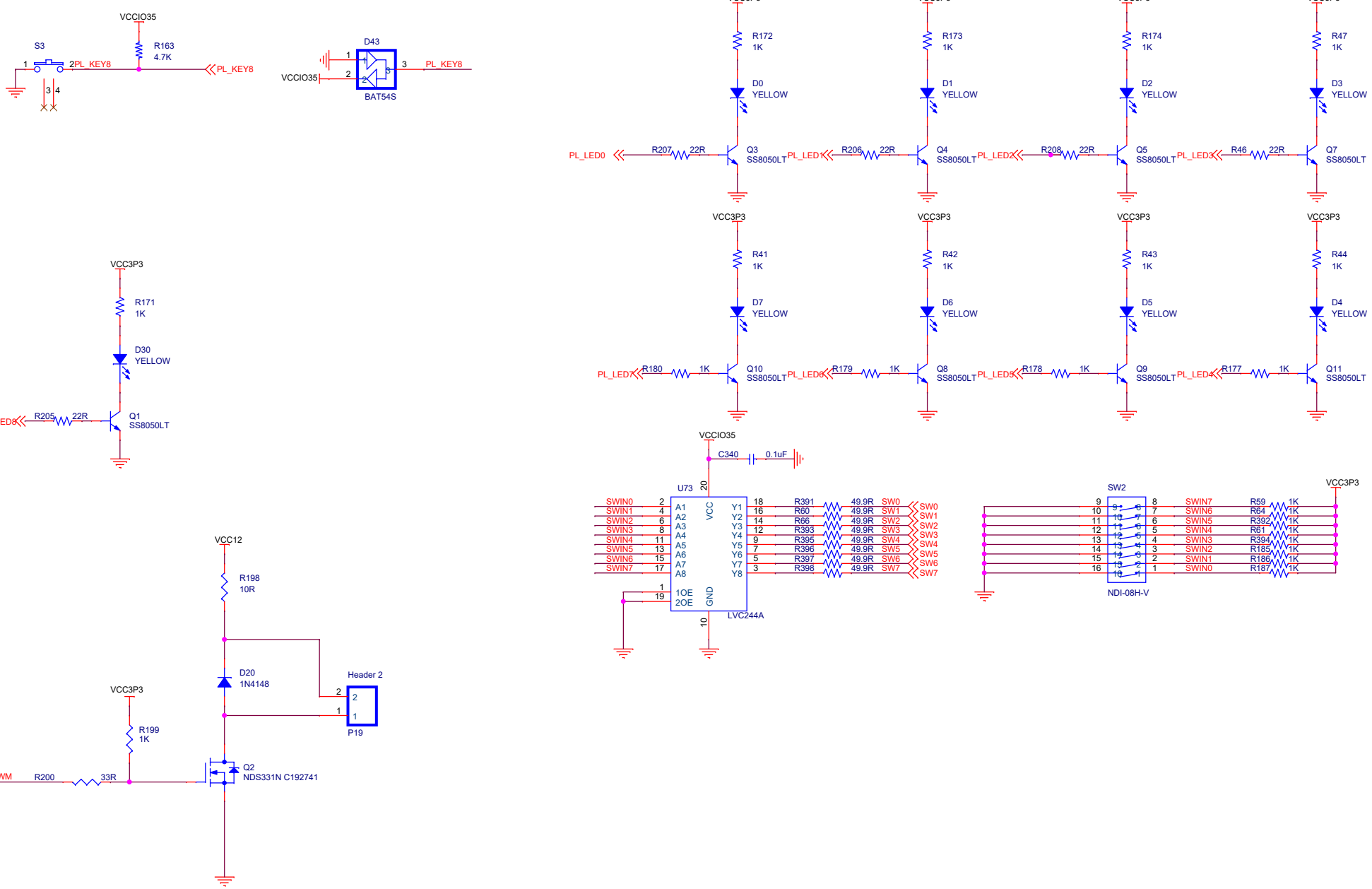


武汉芯路恒科技有限公司		
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Size: A4	File: 07_GPIO	Version: 250812
Date: Friday, November 14, 2025	Sheet 7 of 18	

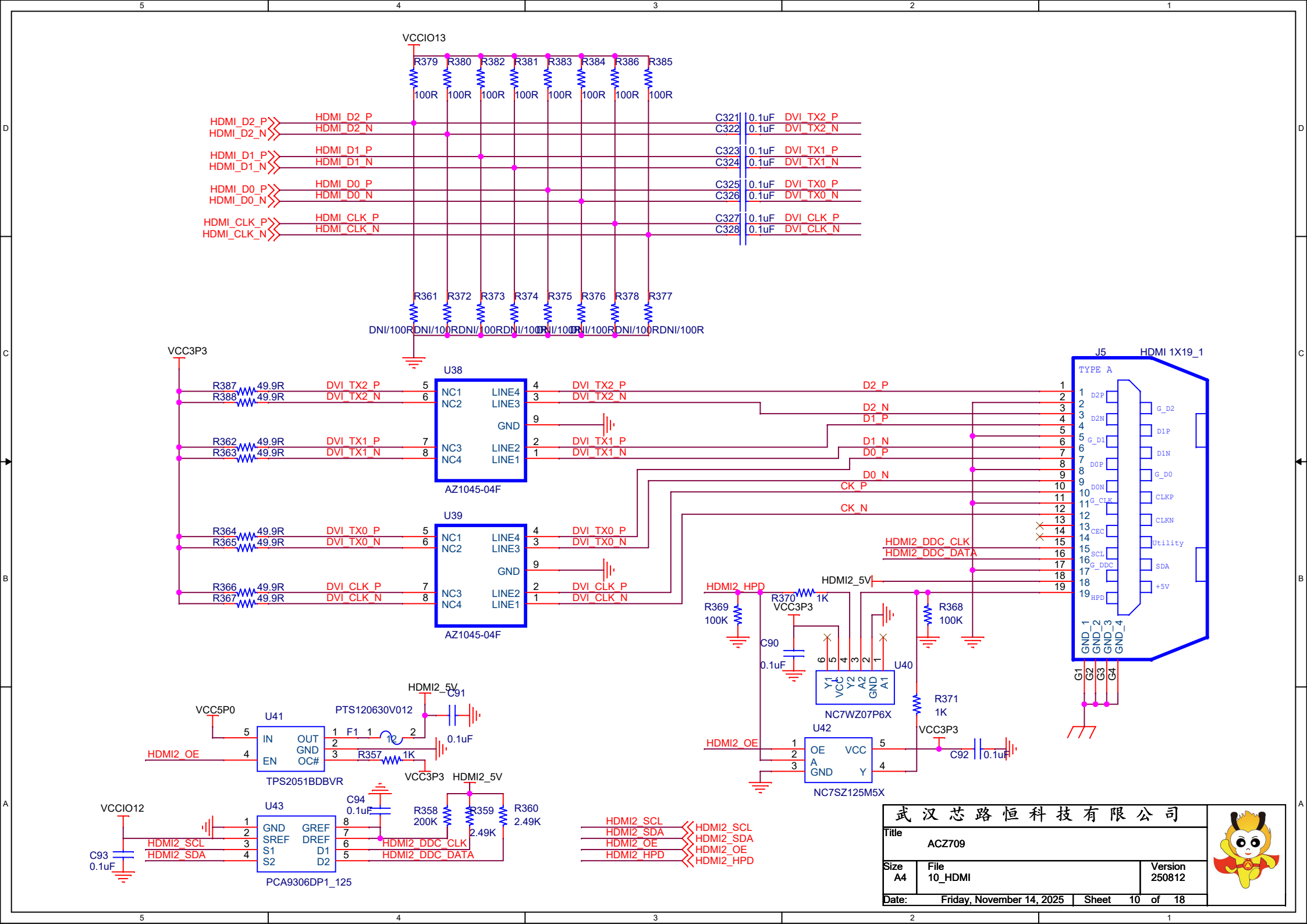


武汉芯路恒科技有限公司

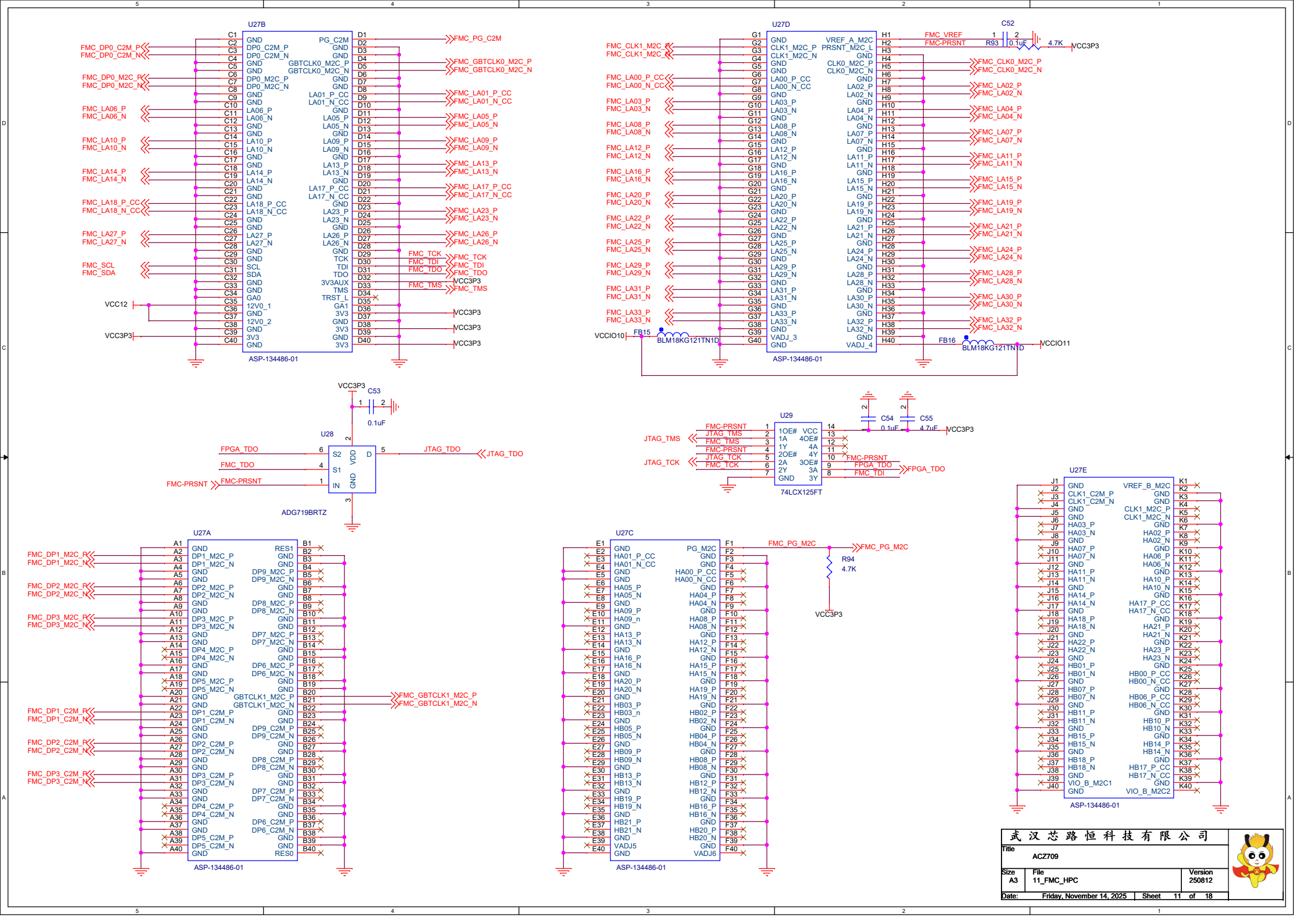
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Size A3	File 08_Debug_Port	Version 250812
Date: Friday, November 14, 2025	Sheet 8 of 18	



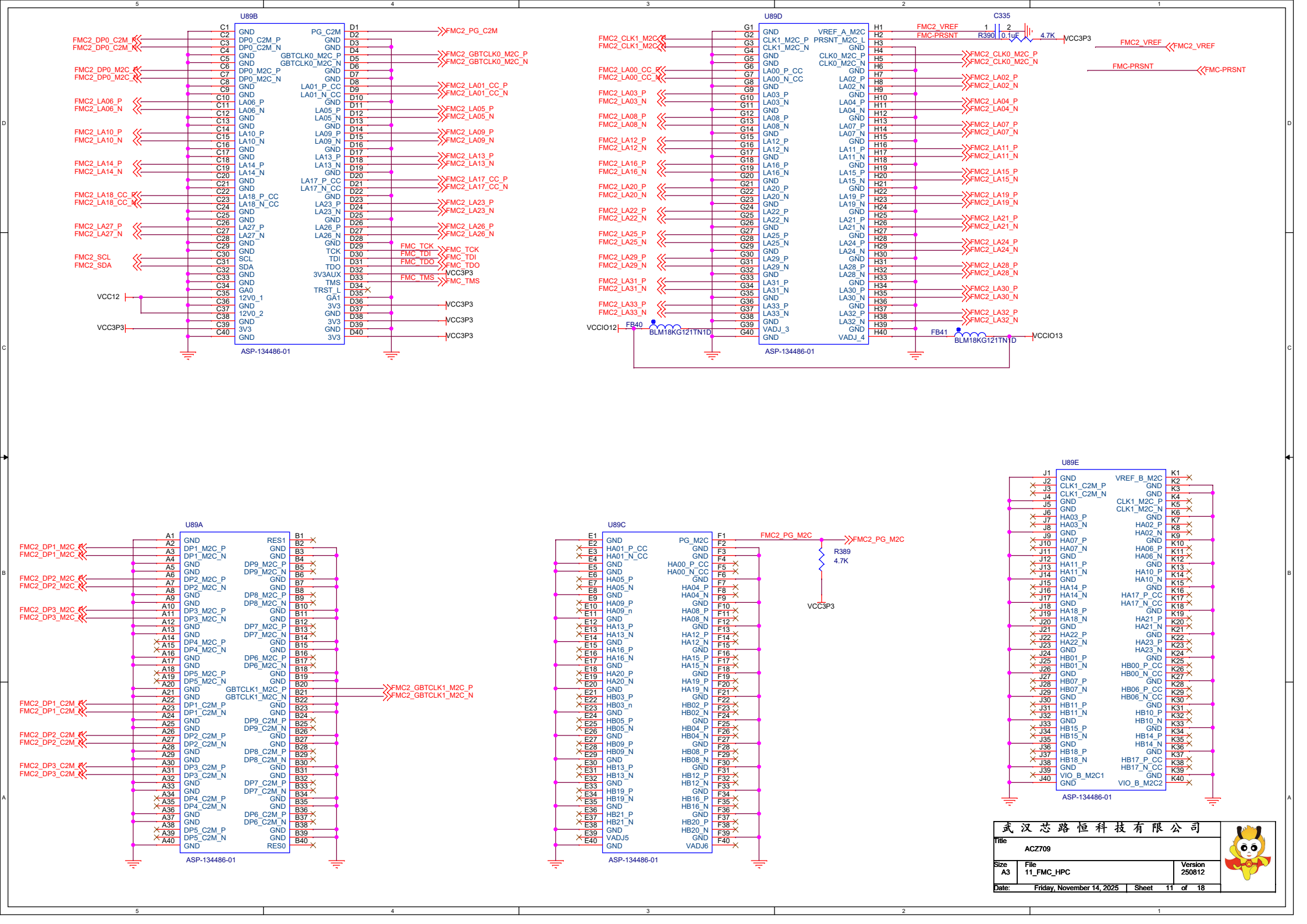
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Date: Wednesday, December 03, 2025	Sheet 9 of 18	

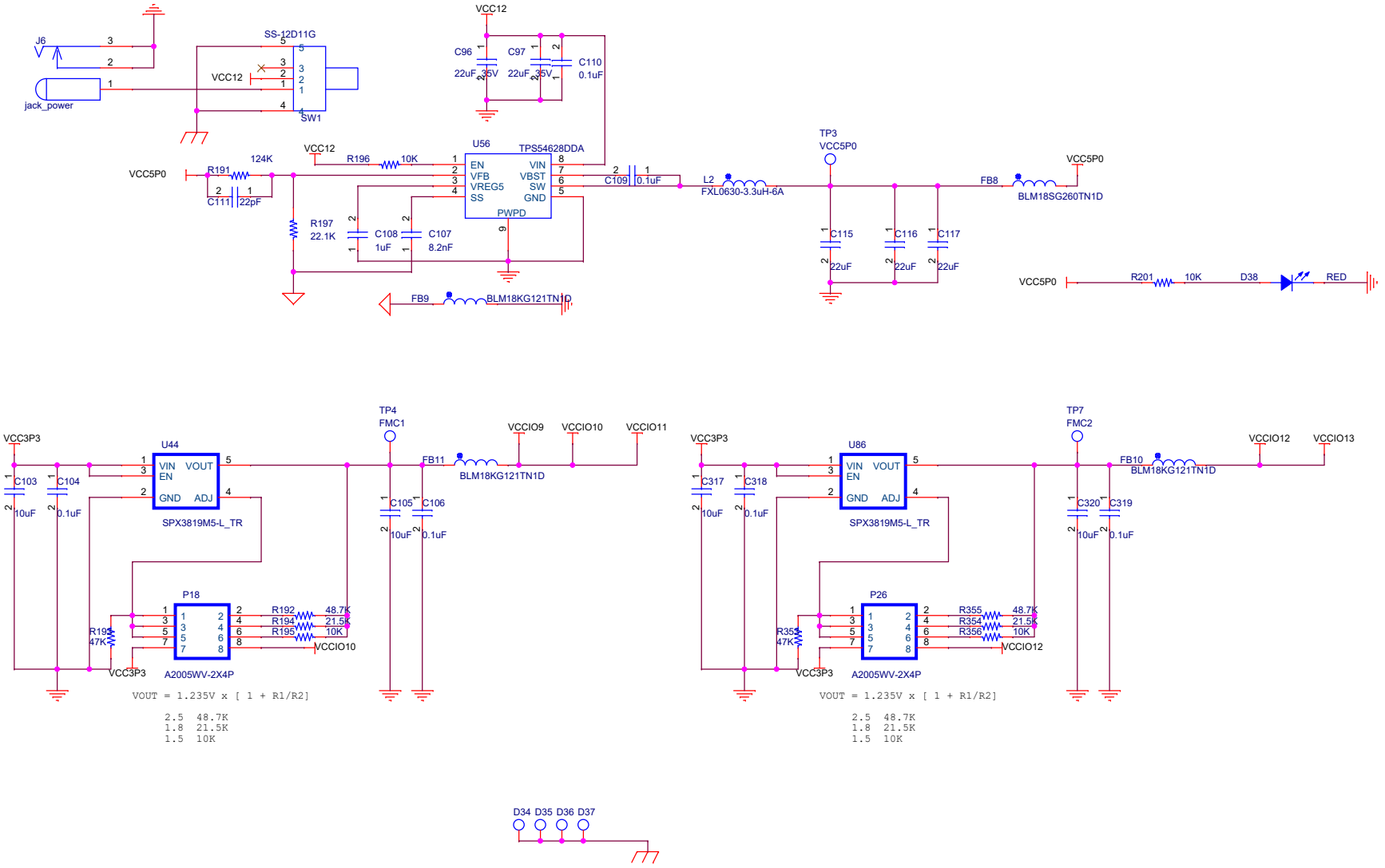


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Size A4	File 10_HDMI		Version 250812
Date: Friday, November 14, 2025		Sheet 10 of 18	

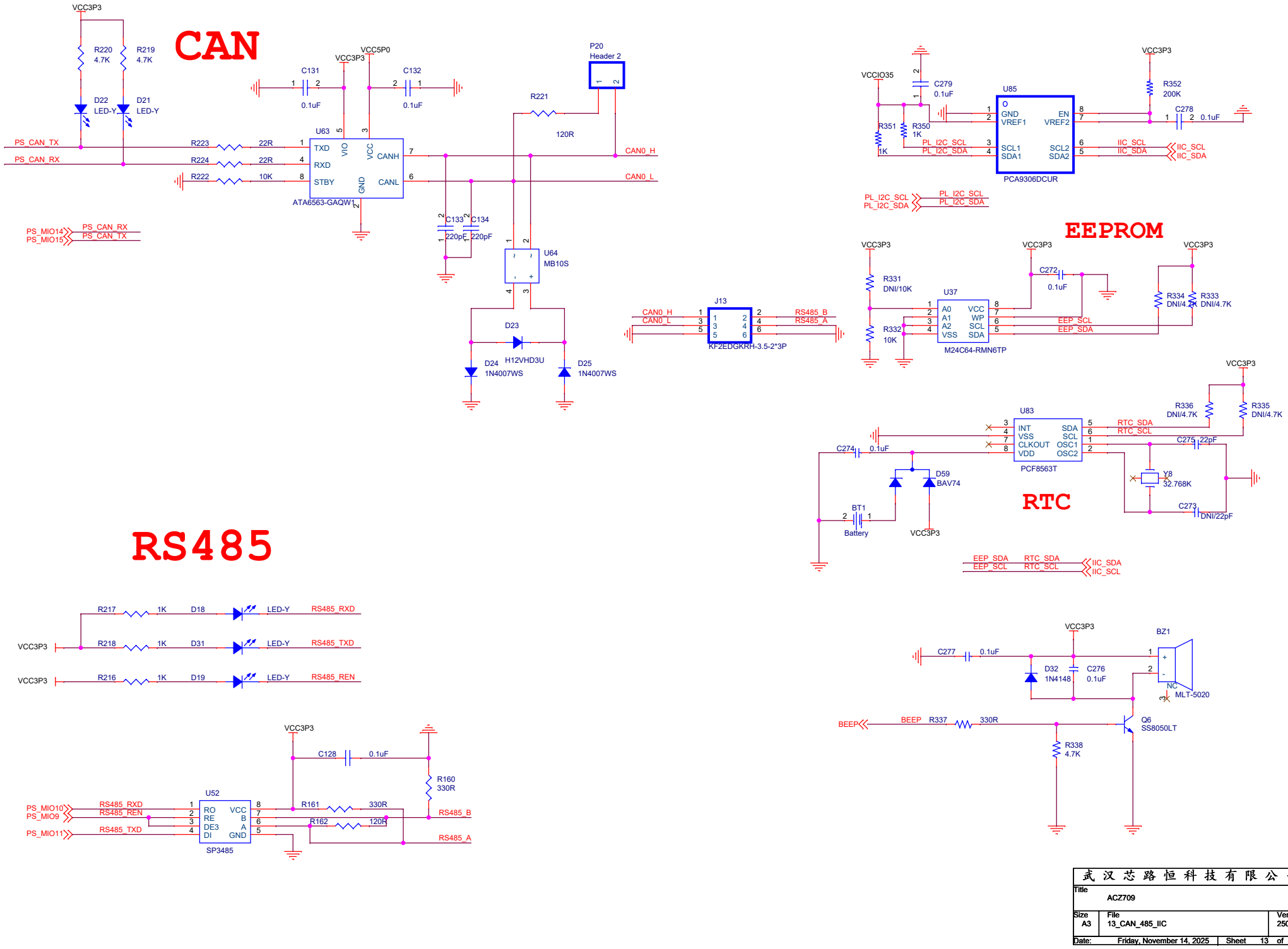


武汉芯路恒科技有限公司			
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Size A3	File 11_FMC_HPC		Version 250812
Date: Friday, November 14, 2025	Sheet 11 of 18		

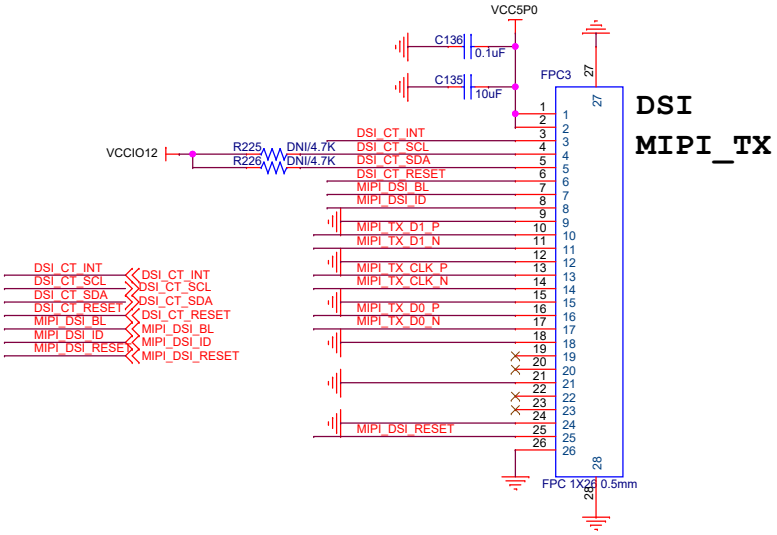

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U89A
U89C
U89E
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FB41
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4.7K
R390
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VCC3P3
VCCIO12
VCCIO13
FMC2_VREF
FMC-PRSNT
FMC_TCK
FMC_TDI
FMC_TDO
FMC_TMS
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武汉芯路恒科技有限公司
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Version
250812
Date:
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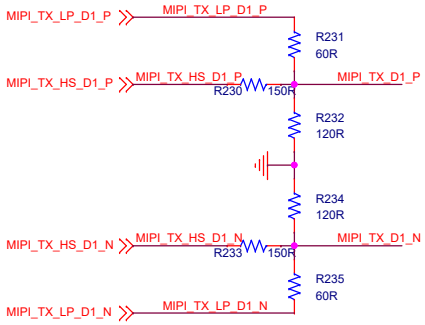


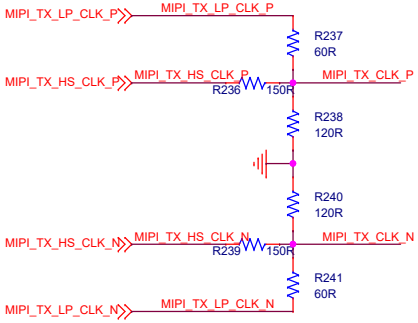
武汉芯路恒科技有限公司			
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Date: Friday, November 14, 2025	Sheet 12 of 18		

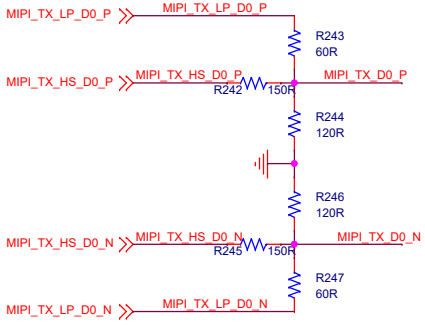


武汉芯路恒科技有限公司		
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Date: Friday, November 14, 2025	Sheet 13 of 18	

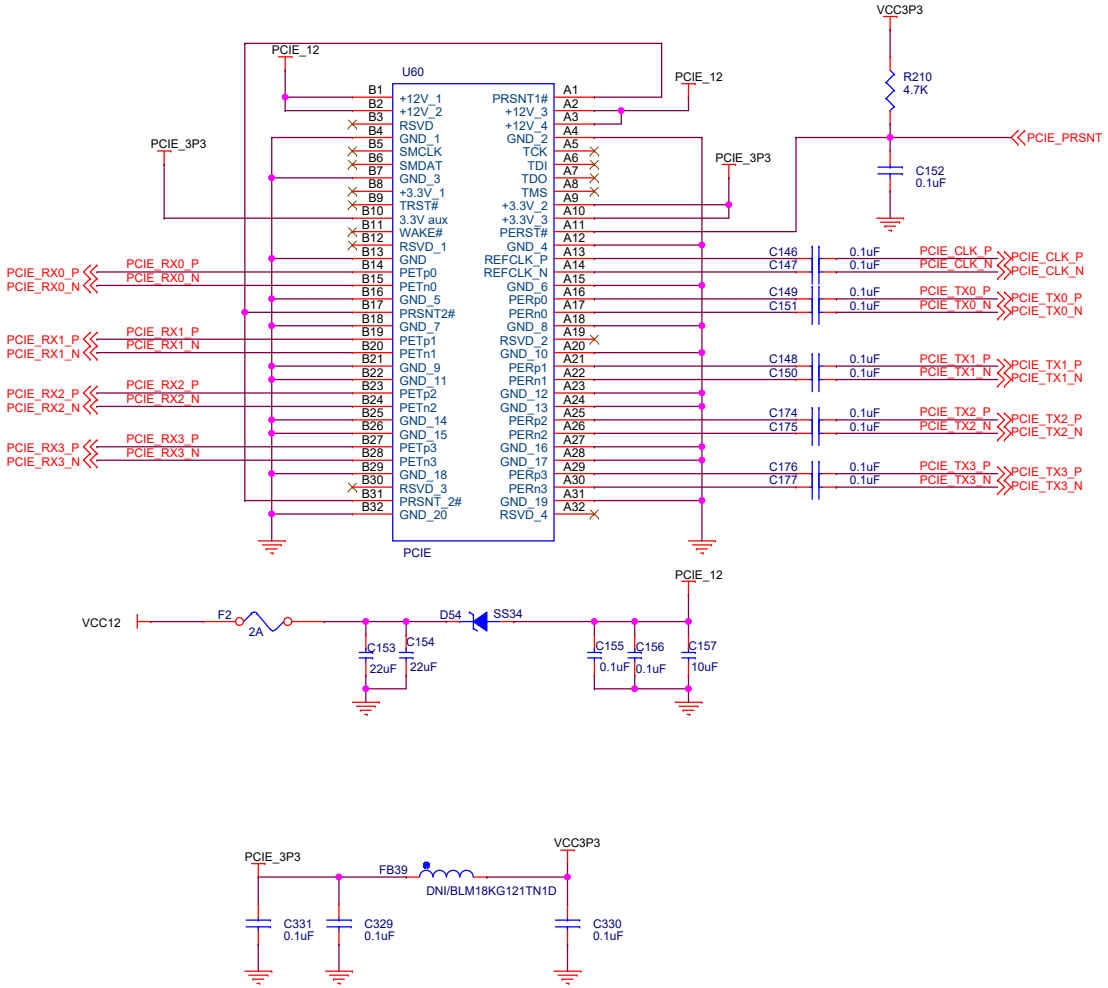




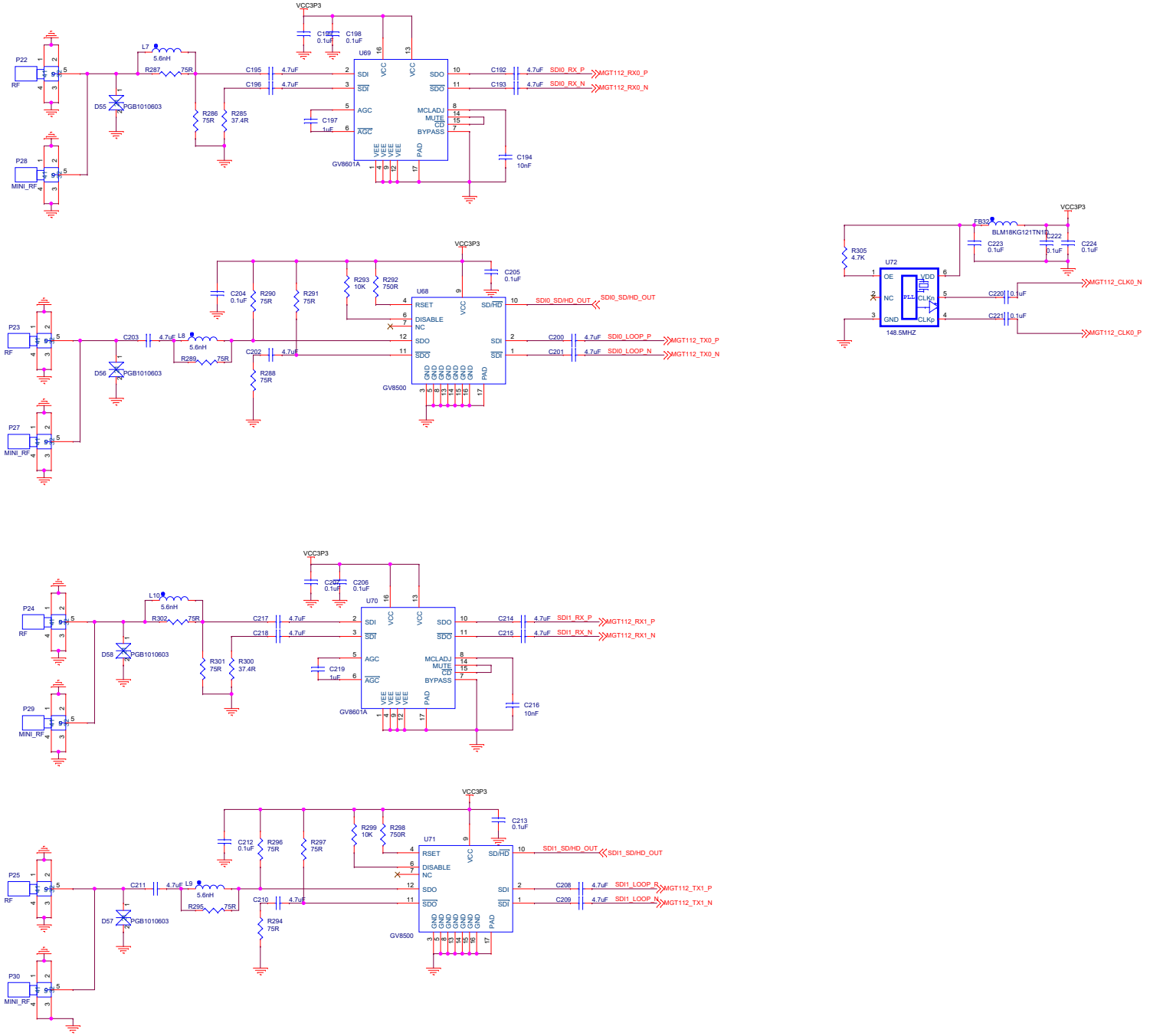




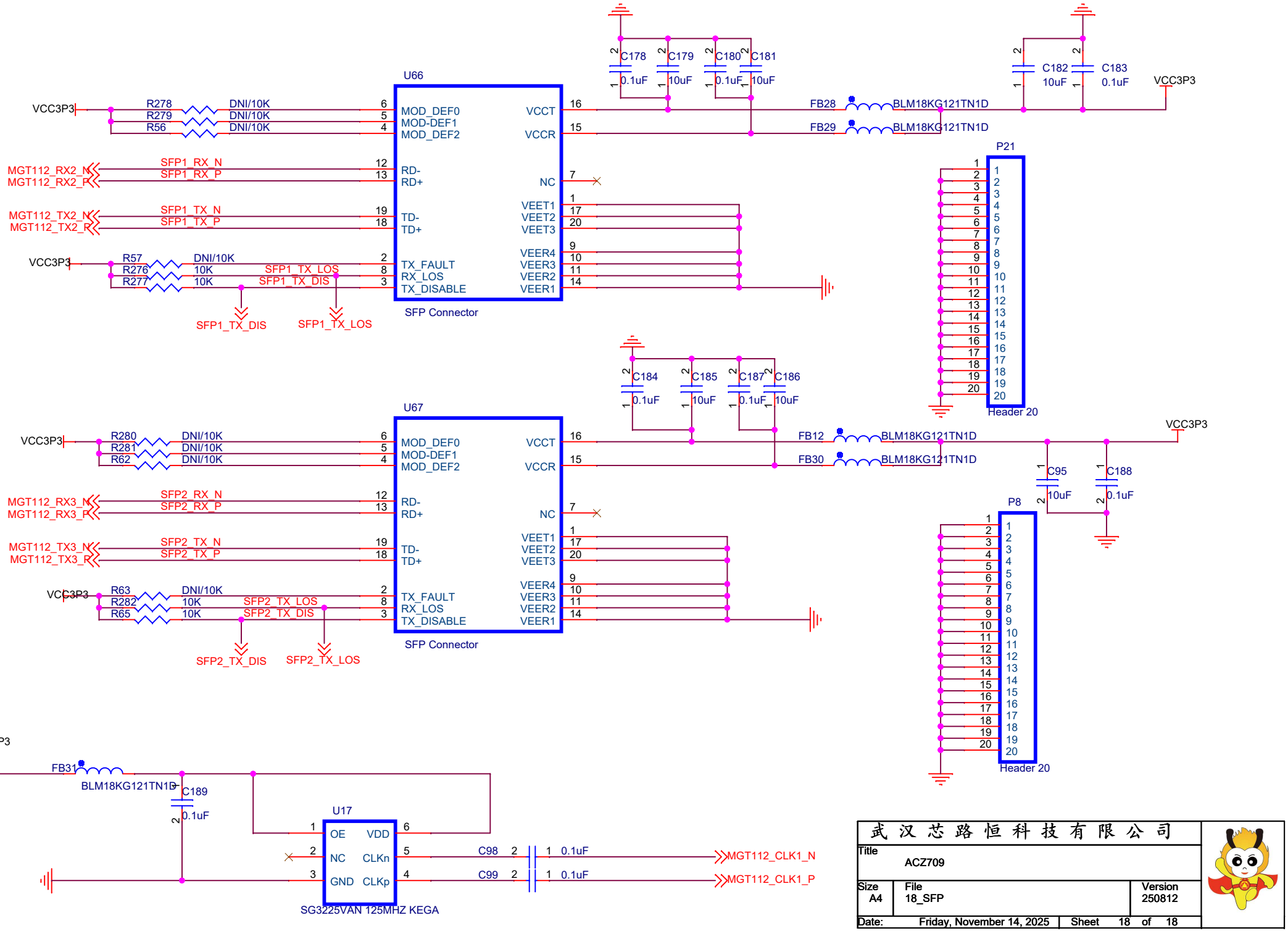
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Title: ACZ709		
Size: A3	File: 16_PCIE	Version: 250812
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Title	ACZ709		
Size A2	File 17_SDI		Version 250812
Date: Friday, November 14, 2025	Sheet 17 of 18		



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Title: ACZ709		
Size: A4	File: 18_SFP	Version: 250812
Date: Friday, November 14, 2025	Sheet 18 of 18	