

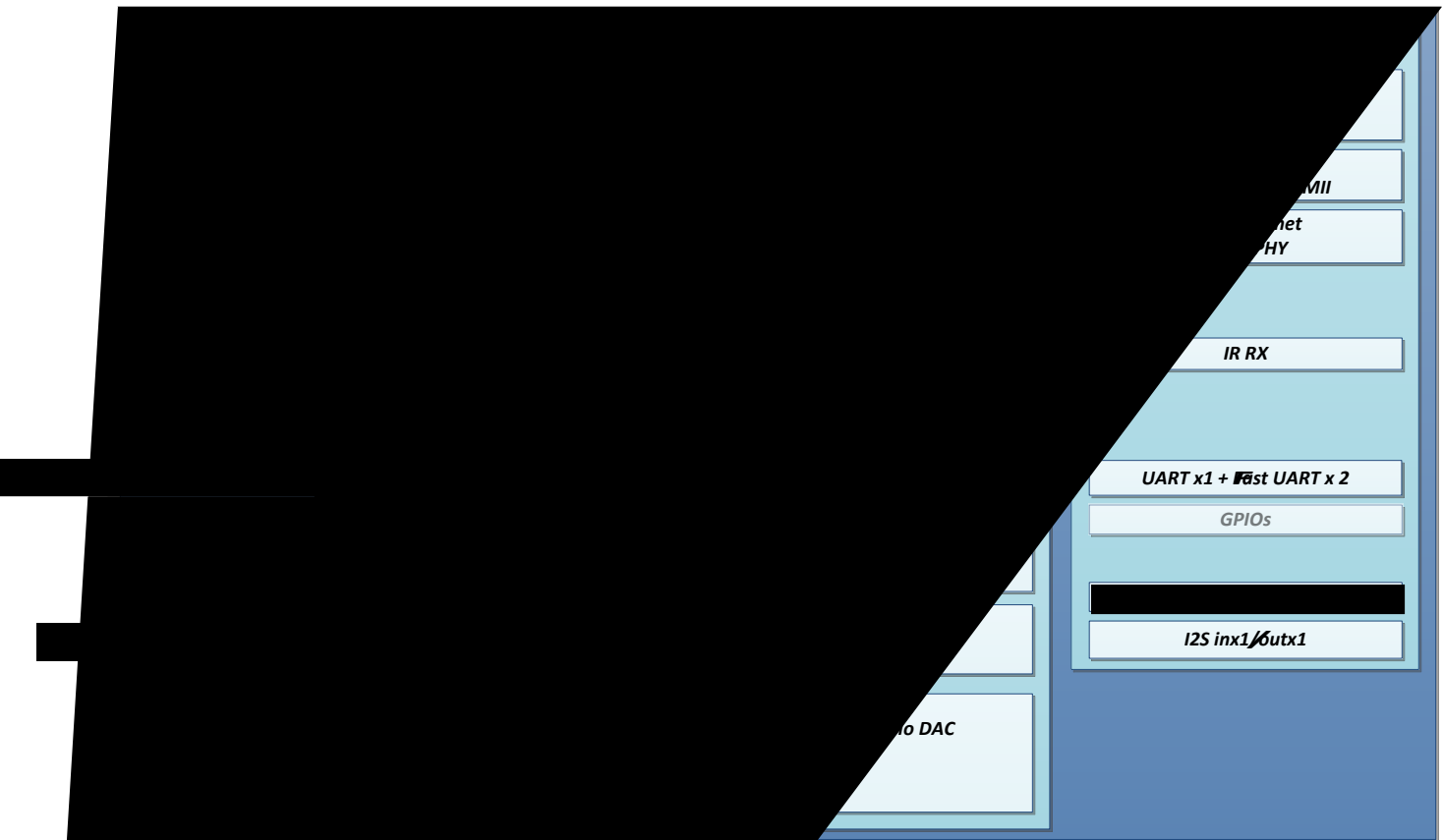
AM8275
4K UHD MULTIMEDIA SOC

DATASHEET



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Block Diagram

5.1. P A

(B)

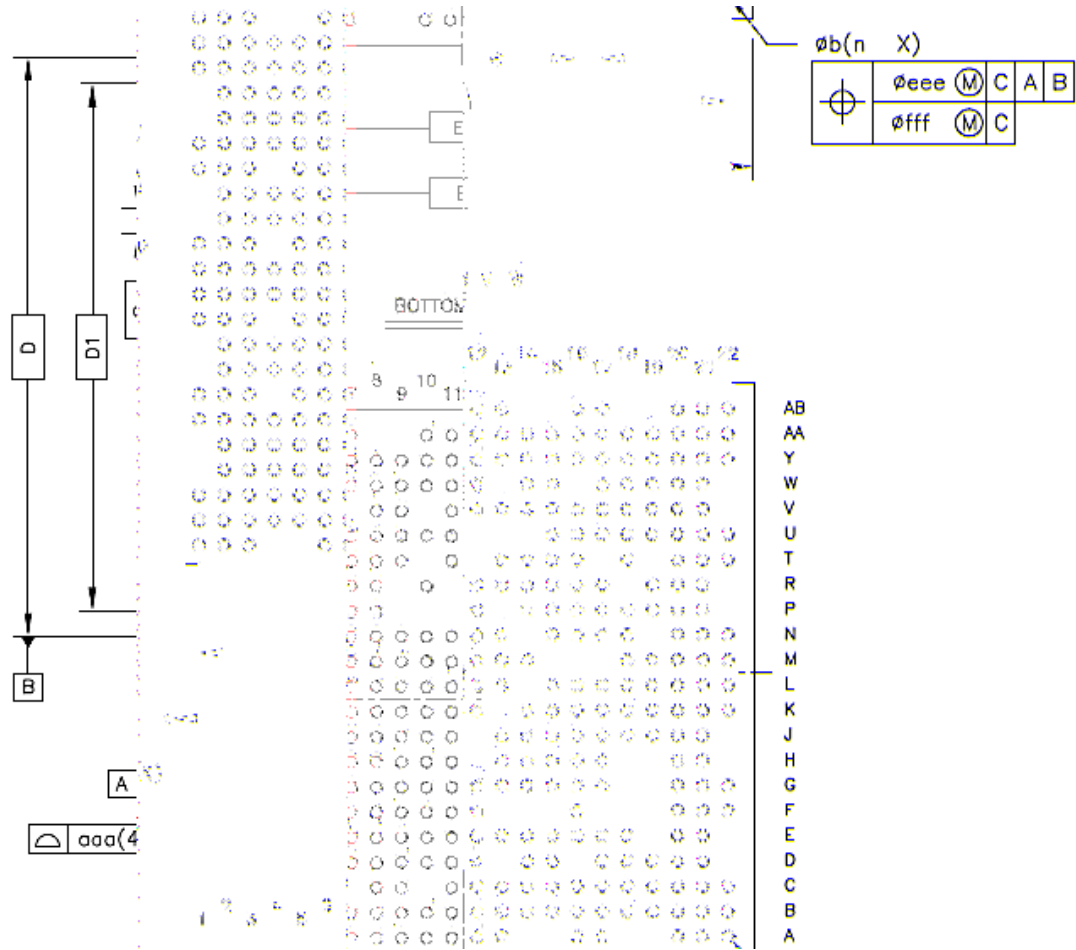
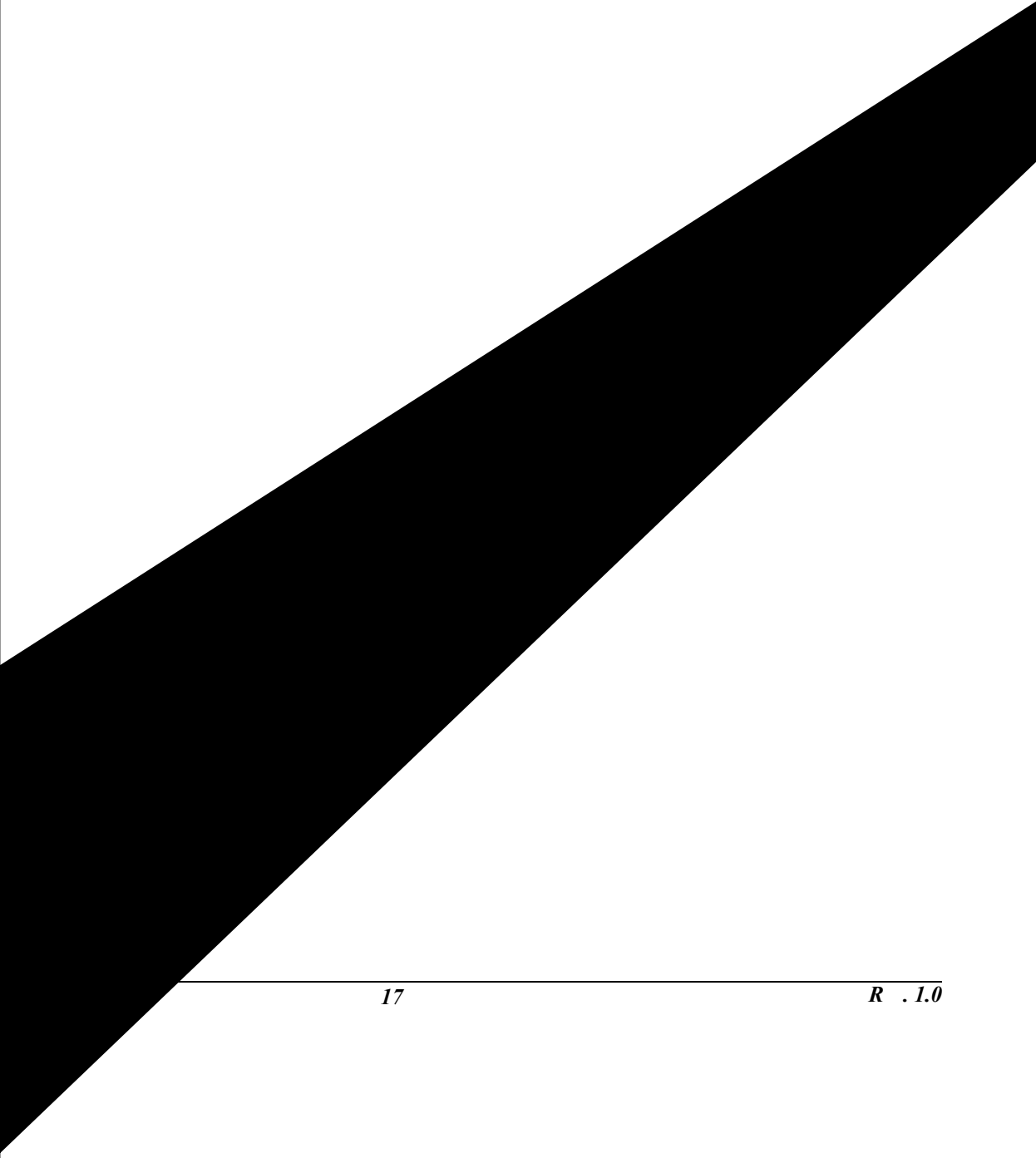
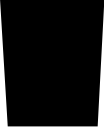


Figure 2. Pin Assignments (Bottom View)









7.1. A M R

Table 2. Power Supply Specification

7.2. R O C

Table 3. Recommended Operating Conditions

Table 4. DC Characteristics

7.5. C R

Table 6. Crystal Requirements for the AM8275

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7.8. P - O S

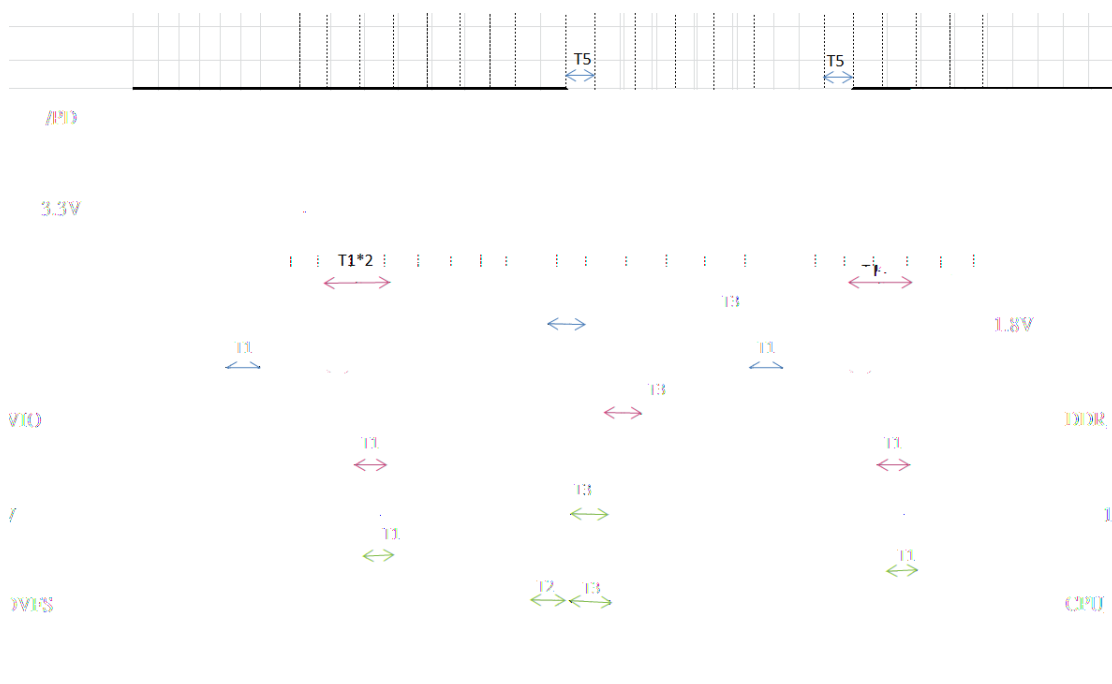


Figure 3. Power-On Sequence Timing Diagram

Table 9. Power-On Sequence Duration

Table 10. Power-On Reset Trigger Level

9.1. *F*

9.2. *S F B E P D*

Table 13. Serial Flash Block External Pin Description

9.3. *NAND F B E P D*

Table 14. NAND Flash Block External Pin Description

9.4. *B D S*

Table 15. Boot Device Selection

10.1. F

11.1. F

11.2. G SPIE S D

Table 18. General SPI External Signal Description

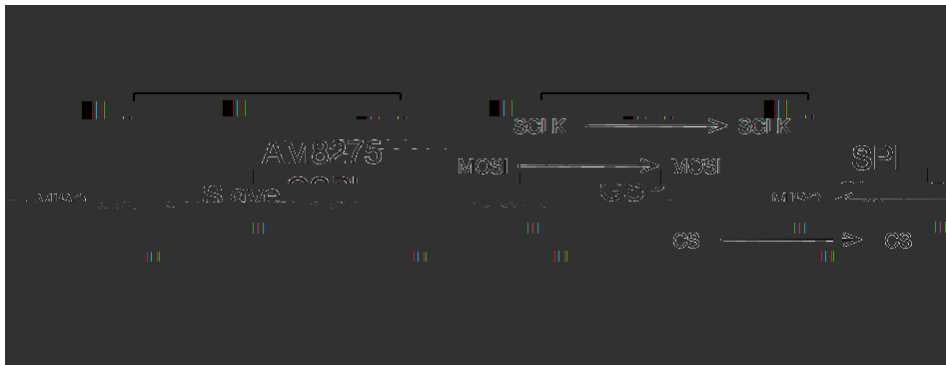


Figure 4. Basic SPI Bus Example

12.1. F

13.1. G P I/O

13.2. U A R T



Table 20. UART Block External Pin Description

13.3. I2C S I

Table 21. I2C Block External Pin Description

13.4. I R C

Table 22. IR RX Block External Pin Description

13.5. T C

13.6. LSADC (L S ADC)

Table 23. LSADC Interface

13.7. P M

13.8. S C I

Table 24. Smart Card Controller External Pin Description

13.9. DC F C

Table 25. DC Fan Control External Pin Description

Pin	Signal	Description

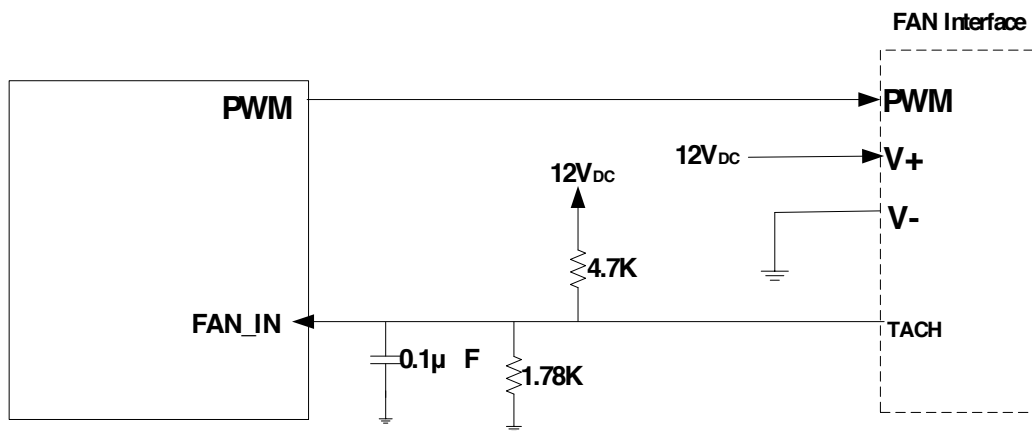


Figure 5. Typical 4-Wire Fan Interface

14.1. F

14.2. T E A O I

Table 26. TV Encoder Analog Output Interface



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15.2. HDMI B E P D

Table 27. HDMI Block External Pin Description

16.1. F

- - ◆

16.2. A E S D

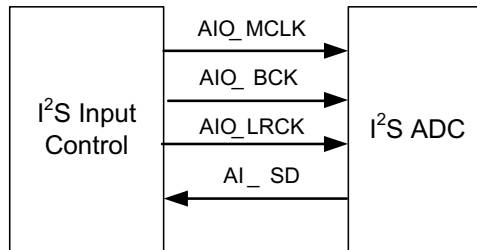


Figure 6. I2S Audio-In Master Mode Interface Configuration

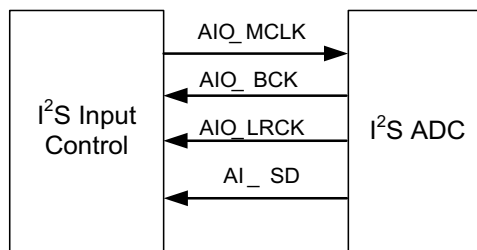


Figure 7. I2S Audio-In Slave Mode Interface Configuration

Table 28. Audio-In Block External Pin Description

— **17.1. F**

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18.1. F

18.2. PCI E 2.0 B E P D

Table 30. PCI Express 2.0 Block External Pin Description

18.3. T PCI E 2.0 A

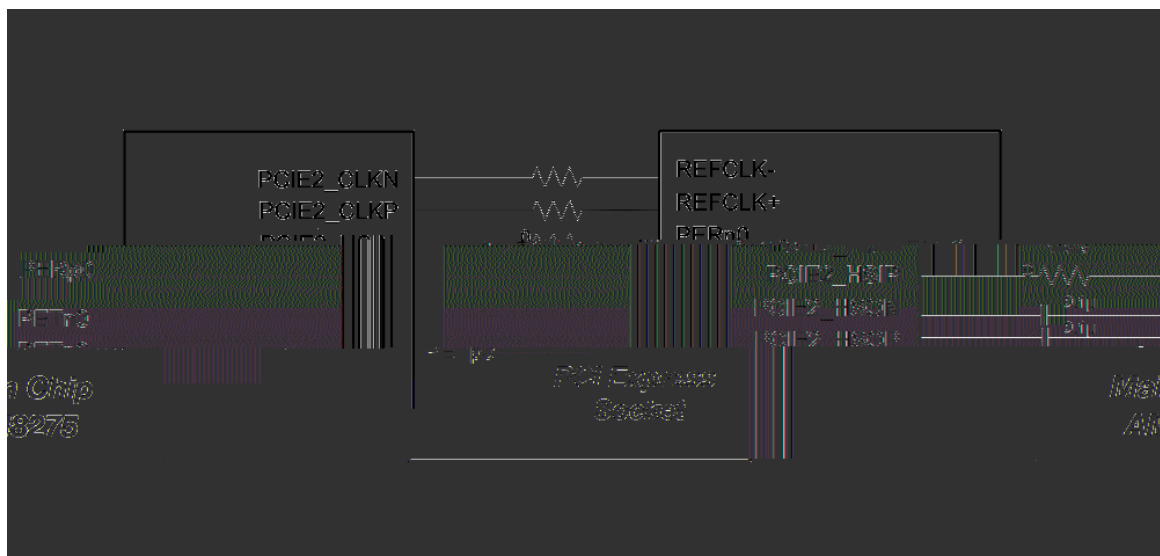


Figure 10. Typical PCI Express 2.0 Application

19.1. F

19.2. E B E P D

Table 31. Ethernet 10/100/1000M Block External Pin Description

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19.3. T A

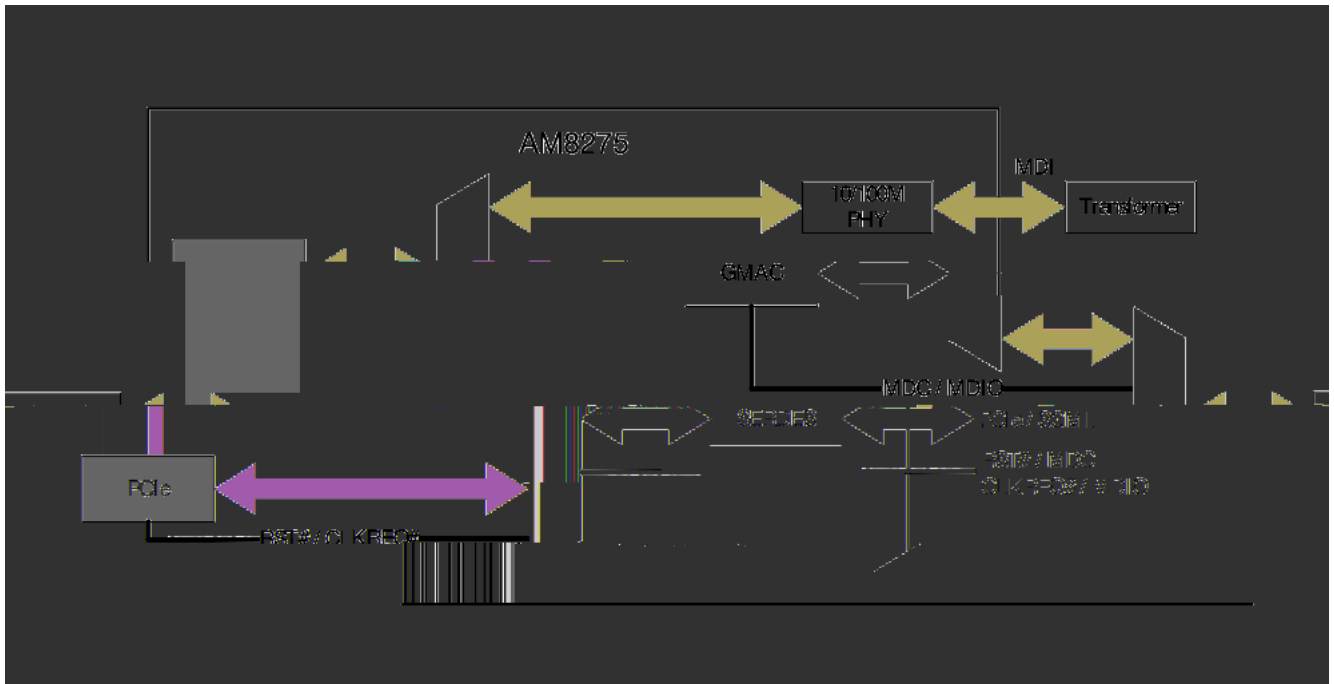


Figure 11. Relationship of PCIe and Ethernet Block

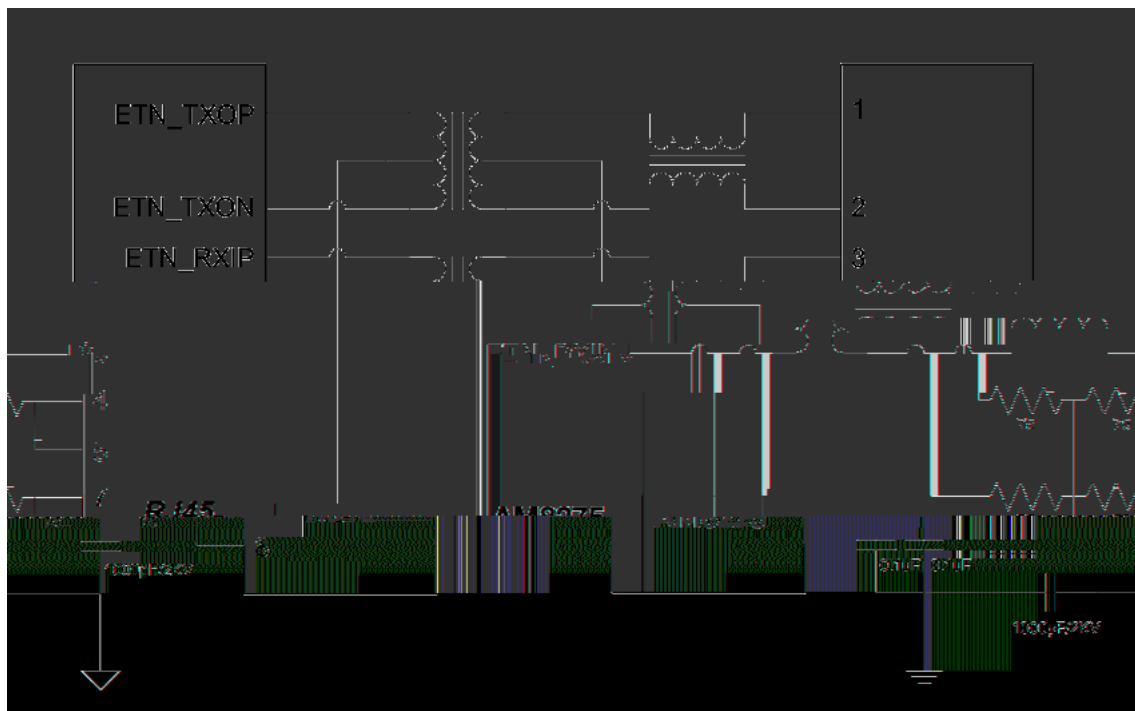


Figure 12. Typical Gigabit Ethernet Application

22.1. F

22.2. C R B E P D

Table 34. Card Reader Block External Pin Description

23.1. F

23.2. C R B E P D

Table 35. Card Reader Block External Pin Description

Table 36. Classification Reflow Profile

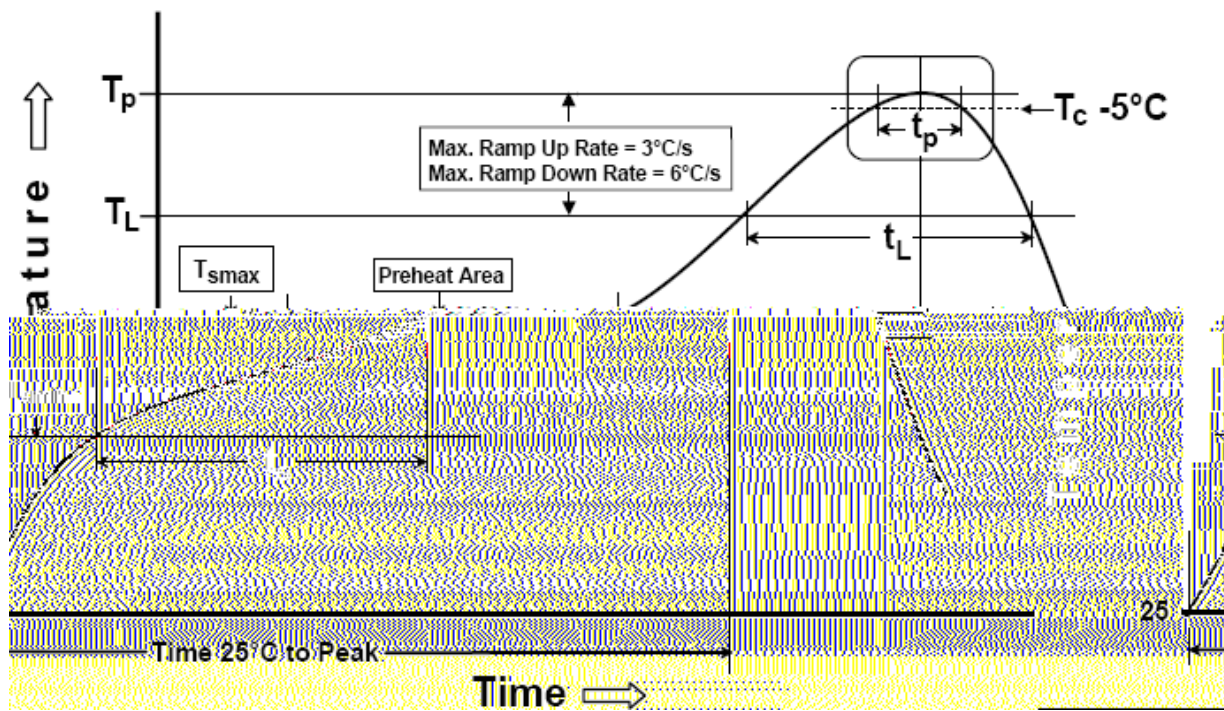
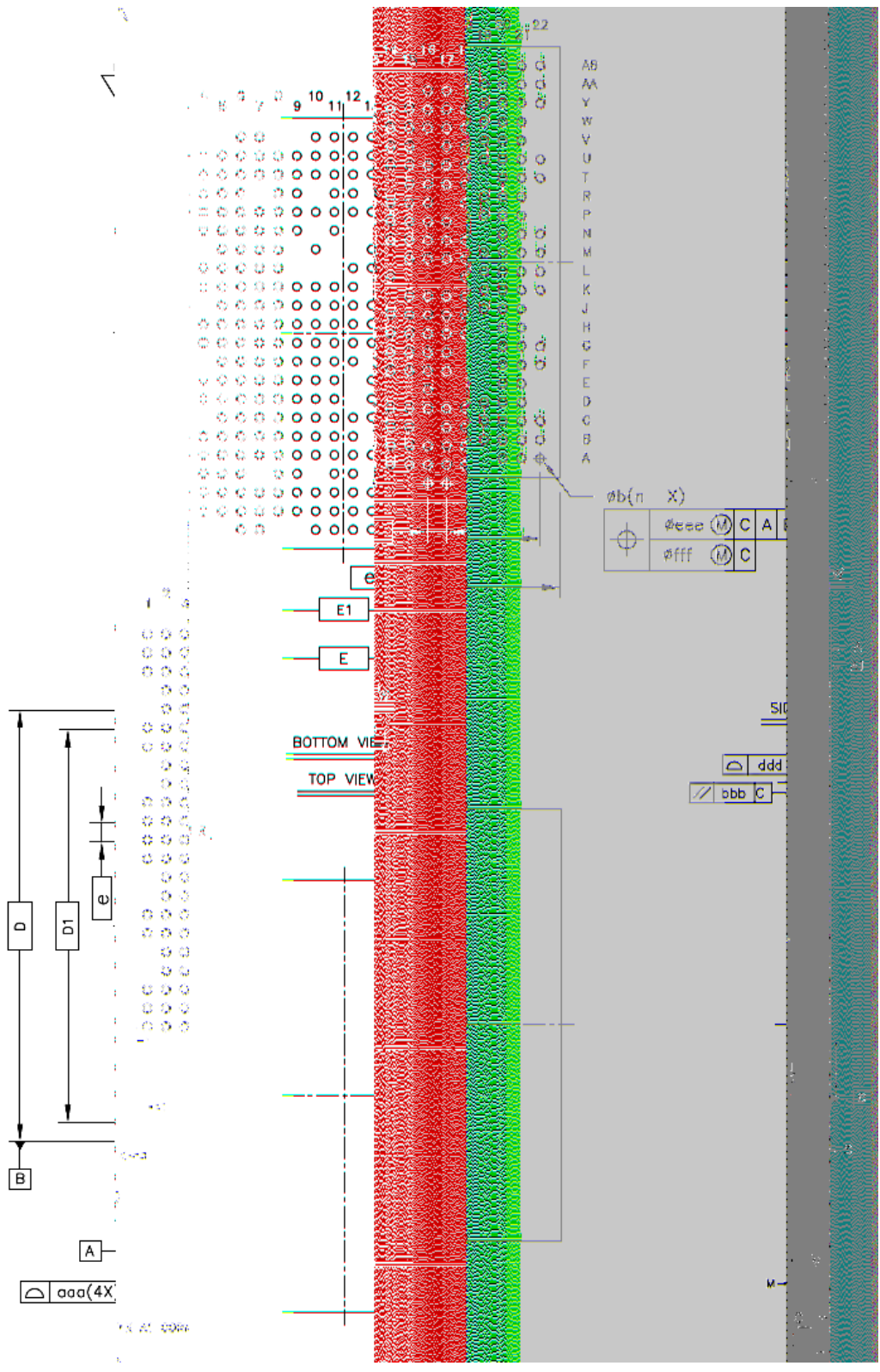


Figure 13. Soldering Temperature Profile



25.1. M

D

N

Package :
Thickness :
Body Size :
Thickness :
Ball Pitch :
Thickness :
Total Thickness :
Mold Thickness :
Substrate :
Ball Diameter :
Edge Tolerance :
Stand Off :
Ball Width :
Package Edge (Package) :
Mold Flatness (Ball) :
Coplanarity :
Ball Offset Center to Center :
Ball Offset :
Ball Count :
Edge Ball :

	MIN.	MAX.
E	1	
D	1	
e		
A		
M	0.7	
S	0.3	
A1	0.160	
b	0.270	1.750
caa		Rel
abb		Rel
edd		
eee		0.280
fff		0.370
n	4	
E1	1	
D1	1	
Symbol	Commo	

Table 37. Ordering Information