

Revised April 23, 2015; Author Elod Gyorgy

A

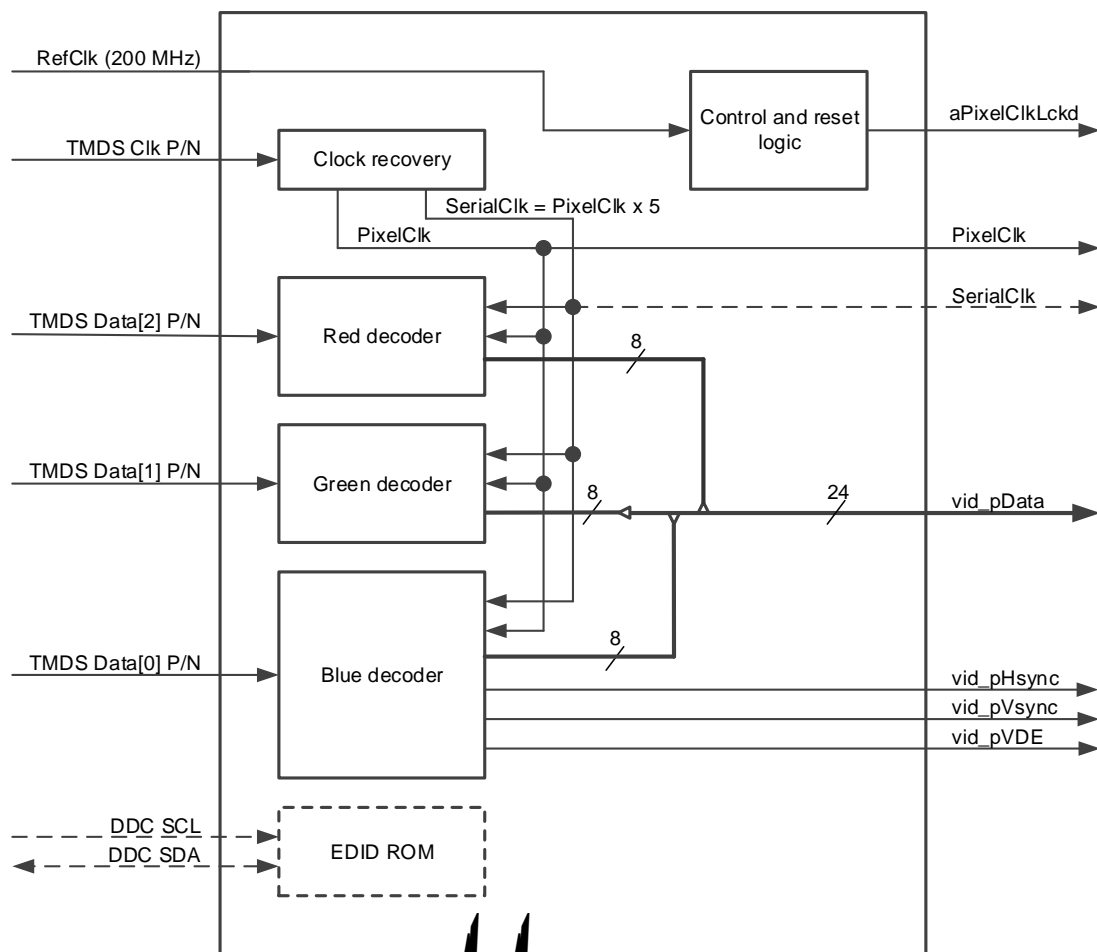
A A A c A A A W CAW A
A A A A A A A A
A n n A A A N [A A
A A A A A A WA A A A A
w AA A Aw A n A A A c A
CAw A A A A A y A A A
A A w A n A AN A A

A			
n	A	w	A
	A		
	A	A	
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	A	A	
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	A	A	
	A	A	
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	A	A	
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• A A A w A Aw A
A W[A A
• c Aw A A Aw A A A
A [A A
• A A A A A A A
N A
• A .A y A A A A
y A AN AA AN [A
• Y yA A .A Aw • A
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A A A N • A A A A A A y n n A r A A A W A A A
 w A A A A A G A A A A A A y n n A A r A A
 c A A A A w A A A n A A A A A A A A N • A
 A A A [A A A y n n A r A A A A A A A A A
 A A G y c G A A A A A A A A A n A N • A A A
 A A G y c G A r A A A A y n n A y A A r A A A A
 G A n A A A A

4 Overview



A

4.1 Clock recovery

A A A AA A r A A A A A A [A A
n Aw A A A A A A A n w A Ar AA A
A A A A A An A A A A n A A w A A AA A
A AA y A A nA A A A A r A A A AA. A

A A A r A A w A A A A w A A wA A Ar n A
A A n w A A A A A A A A AG AA A
NN NA n wA AAw A A AW [A A A A A A A
A AG A A A A AA A A ANNA n A A A A A

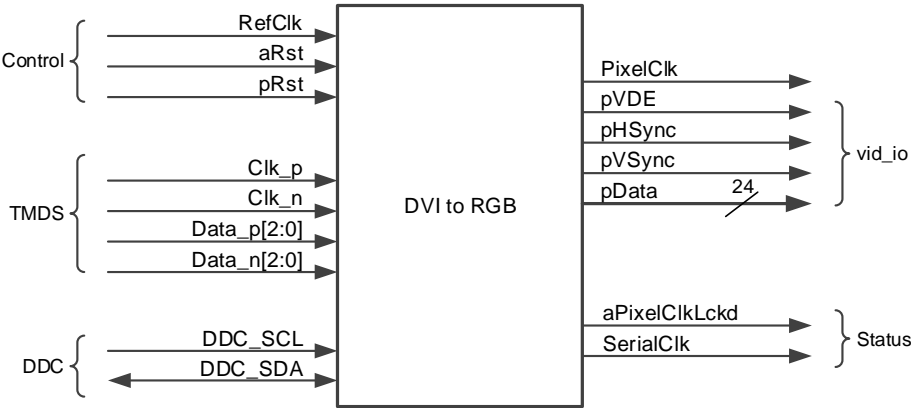
4.2.2 Decoding

4.3 EDID ROM (Display Data Channel)

A A^A A A n A n An w A An Ac A n AA A wA A AA AA

A

5 Port Descriptions



A

G A A A A A				
A A A A W A W A A A A A c A A c A A				
A n A	A	A A	A A	A
A	A	A	A	A A A A
)• [A	A	A	A	A A A A c A
				A A A A A
				A A
)• [A	A	A	A	w A A A A A
				y A c A A
• • A	n A	A	A	W A A A
•] . •] . A	n A	A	A	W A A A A
A	A	A	A	A A A A A
				A
A	A	A	A	A A A A A
				A
y A	cA	A	A	y A A w A n A A A
				A A w A A G A
W A	cA	A	A	W A A w A
				A A A w A A
				A A A A
A	cA	A	A	A A A A w A
				n A A
W A	cA	A	A	W A A w A n A
				A A
A . [A	cA	A	A	W A y A A A A C A

A

A A A A A A A W A A A A n A A A w A A

A A A A

y A	A	A	A	w A A A A A y A A A y A A A A A A
A	A	A	A	G A A A A w A n A A r A A y A A A A A A A w A A A A A w A A A A A C W A A w A C G A

6 Designing with the core

6.1 Customization

6.2 Using SerialClk

6.3 Default EDID

A A A A n A n An w A An Ac A n AA A wA A AA AA

A

N	A n A	A WA	A A A CA
N	A	A	A n n A A
	A A A A	A	A n A yA AA A A
	A n c A	A	A n A yA AA A A
N	A A	A A AA	C A n A CyA AAC A A
G	A w A	A	A A [A yA AA A A
	A w A	A	A A A
	A A A	A W[A	A
	A A A	A A A n A A	
	A A n A	CA . A	
	A A	A A n A [A	
	A n A	A A	
y	A A	A	
	A	A	

A

A

GA A	A A
A A	A
A n A	A
A n A	y A A A . [A
A n A	A A AACN AW A A A AAW A A A AAW A A A AAW A A A A AAW A A A A AAW A A

A A A A A

7 References

A A n A v A A n A A A c A .A

Y yA A AA AG A A Av A c A A A

Y yA A AA AG A A Av A c A A A

Y yA A A A A A A AG AW A A A

A

Y yA A A AA A A A A AG Av A

n c A A A

Y yA A A A A Av A A A A

.A A A A A w A A A A

A