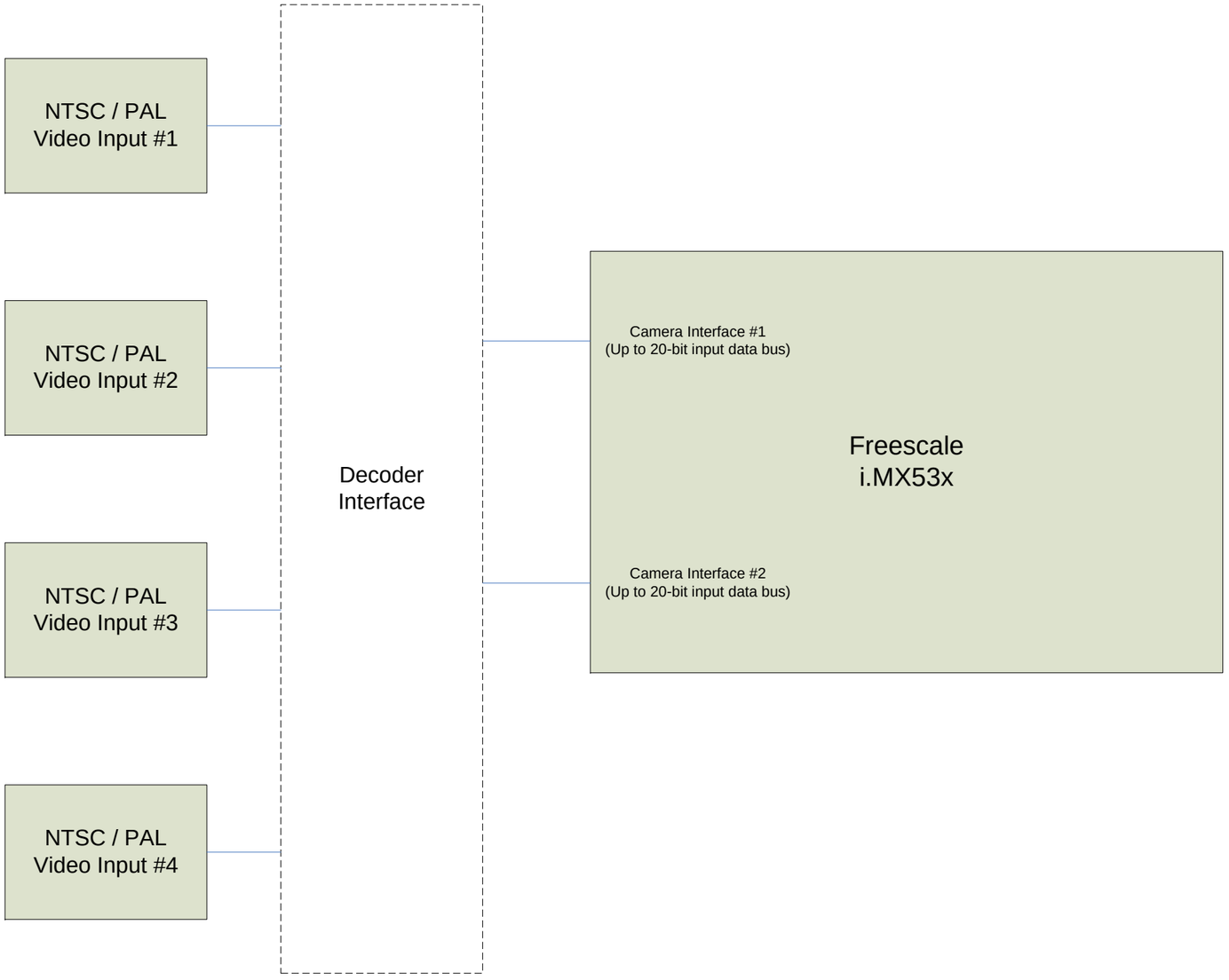

Table 45-2. Data Formats Supported By The Camera Port

Format	Resolution	On-The-Fly Processing	Direct path to memory	Comments
Bayer RGB	8 bits/value	No	8- or 16-bit values	
	10 bits/value	No	Written to the MSB of a 16-bit word	
	16 bits/value	Yes		
Full RGB or YUV 4:4:4	444/555 mode	Yes, starting with color extension to 8 bits/ sample	Yes	In parallel I/F: through an 8-bit or 16-bit bus
	565 mode			In parallel I/F: through an 8-bit or 16-bit bus
	8 bits/value (888 mode)	Yes	Yes	
	8-16 bits/value	No	8- or 16-bit components are written to the MSB of a 16-bit word 10 bits/ value can also be packed in a 32-bit word	
YUV 4:2:2 Component order: UY1VY2... or Y1UY2V...	8 bits/value	Yes	Yes	In parallel I/F: through an 8-bit bus (such as BT.656) or 16-bit bus (such as BT.1120)
	9-10 bits/value	No	Written to the MSB of a 16-bit word	In parallel I/F: through a 10-bit bus (such as BT.656) or 20-bit bus (such as BT.1120)
	16 bits/value	No	Written to the MSB of a 16-bit word	
Gray scale	8 bits/value	Yes	Yes	
	16 bits/value	No	Written to the MSB of a 16-bit word	
Format	**Resolution**	**On-The-Fly Processing**	**Direct path to memory**	**Comments**
Generic data		No	Yes In a parallel I/F, if wider than 8 bits, each bus word is written to the MSB of a 16-bit word	May be used for any other formant, such as JPEG/MPEG4