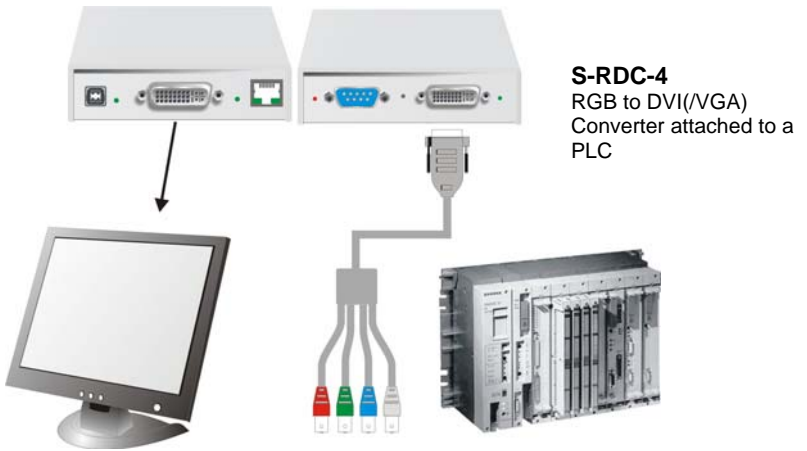


## Appendix A: Example Applications

This section illustrates some specific applications using the RGB to DVI(/VGA) Converter: For more details, please discuss suitable converter architecture with Technical Support (see **Appendix E: Calling Technical Support**).



**Figure 19** RGB to DVI(/VGA) Converter attached to a PLC



**Figure 20** RGB to DVI(/VGA) Converter with optional EGA/CGA support, attached to an old fashioned Computer

## Appendix C: System Upgrade

### System Update / Onboard Programming

It is occasionally necessary to update the firmware of the system. Normally, this procedure is carried out in the factory. If you want to update the firmware yourself, contact Technical Support. You will need a programming cable and software to carry out the update. Please follow the supplied instructions carefully.

## Appendix D: Supported Video Modes

The following table shows the video modes originally supported by the Converter.

Mode	Identification	Hres	Vres	V-freq	H-freq	DotCLK
Selection		pixels	lines	Hz	kHz	MHz
3	MONA S5	442	416	54,4	24,3	14,0
0	AS 230 / 235 / OS 252	448	288	50,0	15,6	10,0
7	GBE 3977 - 64x32	448	288	50,0	15,6	10,0
4	DCC 555a	504	280	50,0	15,7	10,0
1	WF 470	512	240	49,1	15,6	12,0
2	WF 470 neu	512	245	50,1	15,6	12,0
1	WF 470 / AS 215	512	256	50,1	15,6	12,0
2	WF 470 / AS 215	512	512	50,0	31,3	24,0
5	GEM 80 graph i	560	224	50,0	15,6	11,8
5	GEM 80 graph i	560	224	60,0	15,8	11,8
5	GEM 80 graph i	560	224	75,0	18,2	12,0
8	GBE 3977 - 80x48	560	288	50,0	15,6	13,0
10	DISET - 80x25	560	288	50,0	15,6	12,2
12	DCS 560	560	288	50,0	15,7	11,4
1	MONA-C	560	413	58,2	25,8	20,0
5	GEM 80 graph progr.	560	448	50,0	31,3	23,5
5	GEM 80 graph progr.	560	448	60,0	31,5	23,7
5	GEM 80 graph progr.	560	448	75,0	36,4	24,0
2	WF 480	580	480	60,0	30,6	25,0

## APPENDIX D: SUPPORTED VIDEO MODES

Mode	Identification	Hres	Vres	V-freq	H-freq	DotCLK
Selection		pixels	lines	Hz	kHz	MHz
0	CGA	640	200	60,0	15,8	14,2
6	CP526/527	640	234	50,1	15,4	13,1
6	GEM 80 text	640	288	48,8	15,6	13,0
1	Prokon 2	640	288	83,1	27,4	23,0
1	EGA (TTL)	640	350	59,9	21,9	16,3
2	DOS graphic Mode	640	350	70,0	31,4	25,1
0	Vesa Standard	640	350	85,0	37,9	31,5
1	IVE3	640	379	50,0	21,8	17,3
1	IVE4	640	385	50,0	20,0	16,1
1	ABB MOD 300	640	385	60,0	24,8	19,8
1	IVE2	640	398	50,0	21,9	17,8
0	VGA	640	400	56,0	24,6	20,9
1	OP 398 K	640	400	60,0	27,5	22,2
0	VGA	640	400	70,0	31,4	25,1
1	Vesa Standard	640	400	85,0	37,8	31,5
1	COROS LS-C	640	405	59,1	25,4	21,8
1	Prokon 1	640	432	53,8	25,5	23,0
1	Prokon 3	640	432	59,0	27,4	23,0
1	CP 526 highres. 50 Hz	640	468	50,0	31,2	26,2
1	CP 526 highres. 60 Hz	640	468	60,0	30,9	26,2
3	CP 528 highres. 60 Hz	640	468	60,0	30,9	28,3
1	WF 480 / Gracis	640	480	59,9	30,6	27,6
0	Vesa Standard	640	480	60,0	31,5	25,2
2	MAC Mode	640	480	66,7	35,0	31,4
0	Vesa Standard	640	480	72,8	37,9	31,5
0	Vesa Standard	640	480	75,0	37,5	31,5
0	Vesa Standard	640	480	85,0	43,3	36,0
1	NEC	642	200	60,0	15,0	13,5
1	Std.- VGA	656	496	59,9	31,5	25,2
4	NTSC (halfline)	680	240	60,0	15,7	12,9
3	NTSC Interlaced	720	240	60,0	15,8	13,5

## THE RGB TO DVI(VGA) CONVERTER

Mode	Identification	Hres	Vres	V-freq	H-freq	DotCLK
Selection		pixels	lines	Hz	kHz	MHz
3	PAL Interlaced	720	288	50,0	15,6	13,5
1	ABB DSAV110	720	336	50,0	17,9	15,5
1	ABB DSAV111	720	336	61,2	21,8	19,7
1	Hercules monochrom	720	350	49,8	18,4	16,3
1	DOS Text Mode	720	400	70,0	31,4	28,3
2	Vesa Standard	720	400	85,0	37,9	35,5
2	VDU 2000 Coros	720	405	59,1	25,4	24,5
1	Teleperm / DS 078	720	408	60,0	25,7	23,1
3	NTSC progressive	720	480	60,0	31,5	27,0
3	PAL progressive	720	576	50,0	31,3	27,0
3	PC-Textmode	738	414	70,1	31,5	28,3
2	MTBI	746	246	60,0	15,7	14,1
2	CP 527/ 60	800	468	59,9	30,9	32,7
4	Vesa Standard	800	600	56,2	35,1	36,0
0	Vesa Standard	800	600	60,3	37,9	40,0
0	Vesa Standard	800	600	72,1	48,0	49,9
0	Vesa Standard	800	600	75,0	46,9	49,5
0	Vesa Standard	800	600	85,0	53,6	56,2
1	MAC Mode	832	624	75,0	49,5	55,4
0	Vesa Standard	1024	768	60,0	48,4	65,0
0	Vesa Standard	1024	768	70,0	56,4	74,9
1	SUN Mode	1024	768	72,0	58,0	75,2
0	Vesa Standard	1024	768	75,0	60,0	78,7
0	Vesa Standard	1024	768	85,0	68,7	94,5
2	Industrie Standard (I)	1024	768	87,0	35,5	44,9
11	DISET oversample	1120	288	50,0	15,6	24,5
1	DMT1185	1152	864	70,0	63,5	100,1
0	Vesa Standard	1152	864	75,0	67,5	108,0
1	SUN Mode	1152	900	66,7	62,5	95,5
9	GBE 3977 oversample	1164	288	50,0	15,6	26,0
1	1280 interlaced	1280	512	40,0	50,0	84,4

## APPENDIX D: SUPPORTED VIDEO MODES

Mode	Identification	Hres	Vres	V-freq	H-freq	DotCLK
Selection		pixels	lines	Hz	kHz	MHz
1	TV Mode	1280	768	60,0	48,1	81,2
0	Vesa Standard	1280	960	60,0	60,0	108,0
1	DMT127A	1280	960	75,0	75,0	126,0
0	TV Mode	1280	1024	50,1	53,4	90,1
0	Vesa Standard	1280	1024	60,0	64,0	108,0
1	SUN Mode	1280	1024	66,7	71,7	117,0
1	SXGA Unix	1280	1024	73,0	77,2	131,0
0	Vesa Standard	1280	1024	75,0	80,0	135,0