





## HiCO.DIMM Overview 32bit CPU core modules




	DIMM family			
				
Product	DIMM-SH7722	DIMM-SH7723	DIMM-SH7724	DIMM-MX257
Windows CE	-	6.0 R2	-	6.0 R3
Linux	2.6	2.6	2.6	2.6
QNX	-	On request	-	6.4
CPU	Renesas	Renesas	Renesas	Freescale
	SH7722 (SH4AL-DSP)	SH7723 (SH-4A)	SH7724 (SH-4A)	i.MX25 (ARM9)
	333 MHz 600 MIPS	400 MHz 720 MIPS	500 MHz 900 MIPS	400 MHz 440 MIPS
Multimedia	MPEG-4 H.264 HW accelerator for video encode and decode	MPEG-4 H.264 HW accelerator for video encode and decode	MPEG-4 H.264 HW accelerator for video encode and decode	-
	JPEG processing unit	-	JPEG processing unit	-
Coprocessor	DSP	FPU	FPU	-
Flash	32 MB NOR Flash	8 MB NOR Flash / 256 MB NAND Flash	1GB NAND Flash	256 MB NAND Flash
RAM	64 MB SDRAM	128 MB DDR SDRAM	256MB DDR2 SDRAM	64 MB DDR SDRAM
Ethernet	100Base TX	100Base TX	100Base TX	100Base TX
UART/RS232/LVTTL/IrDA	1 / 2 / 1	1 / 4 / 1	1 / 3 / 1	1 / 3 / 0
USB Host	2.0 full speed	2.0 high speed	2.0 high speed	2.0 full speed
USB Device	2.0 high speed	2.0 full speed	2.0 high speed	2.0 high speed
Digital Audio	optional	SPDIF IN/OUT	-	-
Analog Audio	SSI Interface	SSI Interface	SSI Interface	SSI Interface
Video In/Camera	PAL/NTSC, YCrCb 4:2:2 interface CMOS Camera up to 5MPixel or PAL/NTSC codec	PAL/NTSC, YCrCb 4:2:2 interface CMOS Camera up to 5MPixel or PAL/NTSC codec	PAL/NTSC, YCrCb 4:2:2 interface 2xCMOS Camera up to 5MPixel or PAL/NTSC codec	-
Video out	NTSC, YCrCb 4:2:2 interface	NTSC, YCrCb 4:2:2 interface	NTSC, YCrCb 4:2:2 interface	-
CAN	-	-	2.0A/B	2x2.0A/B
I2C	1	1	1	1
SPI	2	1	1	-
Port I/O	10	10	10	3
MMC/SDC	MMC/SDC (SDIO)	2*MMC/SDC (SDIO)	MMC/SDC (SDIO)	2*MMC/SDC (SDIO)
CF interface	-	-	-	-
Touch interface	4-wire resistive	4-wire resistive	4-wire resistive	4-wire resistive
STN, CRT interface	-	-	-	-
TFT	up to SVGA	up to SVGA	up to SVGA	up to SVGA
PC/104 interface	no	no	no	no
Size in mm	67.6 x 45 x 9	67.6 x 45 x 9	67.6 x 45 x 9	67.6 x 45 x 9
max. power consumpt.	3.3V@350mA	3.3V@400mA	3.3V@400mA	3.3V@350mA
Operating temperature	0...70° C	0...70° C, opt. -40...+85° C	0...70° C, opt. -40...+85° C	0...70° C, opt. -40...+85° C
Interface to carrier board	Processor bus and I/O via SODIMM 200 connector			
Carrier boards available	yes	yes	yes	yes
Starterkits available	yes	yes	yes	yes
Custom specific solutions	yes	yes	yes	yes



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## HiCO.nect Overview 32bit CPU core modules

	HiCO.nect family		
			
Product	HiCO.ARM9	HiCO.SH7760	HiCO.SH7780
Windows CE	5.0	5.0, 6.0 R2	6.0 R2
Linux	2.6	2.6	2.6
QNX	-	6.3 SP2	6.4
CPU	Atmel	Renesas	Renesas
	AT91RM9200	SH7760 (SH4)	SH7780 (SH-4A)
	180 MHz	198 MHz	400 MHz
	-	360 MIPS	720 MIPS
Multimedia	-	-	-
Coprocessor	-	FPU	FPU
Flash	32 MB NOR Flash	32 MB NOR Flash	32 MB/opt.60 MB NOR Flash
RAM	64 MB SDRAM	64 MB SDRAM	128 MB SDRAM
Ethernet	100Base TX	100Base TX	100Base TX
UART/RS232/LVTTL/IrDA	1 / 3 / 0	1 / 2 / 0	1 / 2 / 0
USB Host	2.0 full speed	1.1 full speed	1.1 full speed
USB Device	2.0 full speed	2.0 full speed	2.0 full speed
Digital Audio	-	-	-
Analog Audio	SSI Interface	SSI Interface	SSI Interface
Video In/Camera	-	-	-
Video out	-	-	-
CAN	-	2x 2.0A/B	2.0A/B
I2C	1	2	1
SPI	1	1	-
Port I/O	2	2 (+8)	5
MMC/SDC	MMC/SDC	MMC/SDC	MMC/SDC
CF interface	1	1	1
Touch interface	4-wire resistive	4-wire resistive	4-wire resistive
STN, CRT interface	-	STN	CRT
TFT	QVGA	up to VGA	up to XGA
PC/104 interface	yes	yes	yes
Size in mm	66 x 82 x 16	66 x 82 x 16	66 x 82 x 16
max. power consumpt.	3,3 V @ 300 mA	3.3V@680 mA	3.3 V@750mA
Operating temperature	0...70° C, opt. -40...+85° C	0...70° C, opt. -40...+85° C	0...70° C opt. -40...+85° C
Interface to carrier board	Processor bus and I/O via Hirose connector		
Carrier boards available	yes	yes	yes
Starterkits available	yes	yes	yes
Custom specific solutions	yes	yes	yes



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