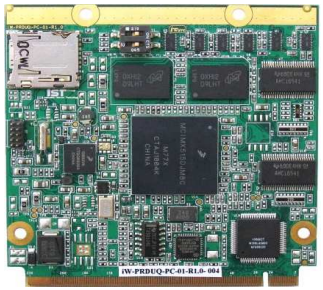
i.MX51 / i.MX53 / i.MX6x CPU module

	Note *: Optional			
	i.MX51		**i.MX53**	**i.MX6x**
	Rainbow-G8M	**Rainbow-G8M-Q7**	**Rainbow-G11M**	**Rainbow-G15M-Q7**
Benefits	Q7 form factor (70mm x 70mm)	Q7 R1.20 compatible SOM module	industry standard (-40 to +85℃)	Q7 R1.20 compatible SOM module
	Fan less, low power solution	Fan less, low power solution	Fan less, low power solution	QUAD, DUAL, Solo core pin compatible
	on-board interfaces (uSD, USB)	on-board interfaces (uSD and JTAG)	on-board interfaces (uSD, USB)	on-board interfaces (uSD and JTAG)
	Long term support 5+ years	Long term support 5+ years	Long term support 5+ years	Long term support 5+ years
OS Support	Linux 2.6.35, Android2.3, WinCE6.0	Linux 2.6.35, WinCE6.0	Linux 2.6.35, Android 2.3, WEC7, QNX *	OS Linux 3.0, Android 4.0, WEC7
Applications	Industrial HMI, Medical handhelds	Industrial HMI, Medical handhelds	Automotive infotainment, Digital signage, HMI	Automotive IVI, HMI, Handhelds, SOC computing
CPU	i.MX51 ARM Cortex A8 @800MHz	i.MX51 ARM Cortex A8 @800MHz	i.MX536 @800MHz Cortex A8	i.MX6x @1GHz Cortex A9 D/Q Core
Hardware Accelerator	OpenGL ES2.0 & H/W Accelerators	OpenGL ES2.0 & H/W Accelerators	OpenGL ES2.0 & H/W Accelerators	OpenGL ES2.0 & H/W Accelerators
	HD720p Video Decode & Encode	HD720p Video Decode & Encode	HD1080p Video Decode & HD720p Encode	HD1080p Video Decode & Encode
PMIC	MC13892 + RTC	MC13892 + RTC	LTC3589	Internal PMIC
OS	Linux 2.6.35, Android BSP, WinCE	Linux 2.6.35, Android BSP, WinCE	Linux 2.6.35, Android BSP,WEC7*, QNX *	Linux 3.0.15, Android 4.0, WEC7
Memory	128MB DDR2 (Expandable to 512Mbyte)	128MB DDR2 (Expandable to 512Mbyte)	512 Mbyte DDR2 (Expandable to 1Gbyte)	1GB DDR3 SDRAM (Extendable to 4GB)
	128MB NAND (Expandable to 2GB), SPI Flash*	128MB NAND (Expandable to 2GB), SPI Flash*	SPI Flash*, 8GB eMMC Flash (Expandable)*	4 GB eMMC Flash (Expandable)*, SPI Flash*
	on board MicroSD slot	on board MicroSD slot	on board MicroSD slot	on board MicroSD slot
On board support	Boot mode SW, microSD, JTAG Header	Boot mode SW, microSD, JTAG Header	Boot mode SW, microSD, JTAG Header	Boot mode SW, microSD, JTAG Header
	Edge connector Interface	**Q7 edge connector**	**MXM-3 edge connector**	**Q7 edge connector**
	Ethernet 10/100 MII X 1	Ethernet 10/100 Mbps PHY output x 1	Ethernet 10/100 Mbps PHY output x 1	Gigabit Ethernet PHY output x 1
	SD/MMC port X 1	SATA 2.0 port x 1 *	UART X 3, I2C x 2, SDIO x 3, SPI x 2	HDMI 1.4, SATA 3.0 x 1
	I2C X 2, PWM X2	LVDS LCD port x1	24-Bit RGB , ESAI	PCIe v2.0 x 1
	USB 2.0 Host X 1 (without phy) , USB OTG X 1	AC97 audio, 8 bit SD/MMC	Audio , SATA, CAN1	Dual LVDS LCD port
	UART X 2, JTAG, GPIOs	CAN*, SPI , I2C	GPIO x 16, MLB, ESAI, SPDIF	USB 2.0 Host x 4, USB 2.0 device
	SPI, SSI (Audio) , CSI	USB 2.0 Host x 4, USB 2.0 device	Camera CSI port, CAN2*,	AC97 audio, 8 bit SD/MMC
	Display (24 bit) [1080i / 720p], Analog TV-Out	**Expansion connector Interface**	Dual LVDS LCD support	CAN1, SPI, I2C
	Expansion connector Interface	Camera CSI x 2 （8bit）	USB 2.0 Host, USB 2.0 device	**Expansion connector Interface**
	Memory bus (16 bit multiplexed bus)	UART X 2, 4 x 4 keymatrix, Memory bus		camera CSI x 2 (8bit), MIPI CSI, MIPI DSI
	4 x 4 keymatrix, GPIOs	I2C, PWM, SSI, GPIOs, Analog TV-Out		24 bit RGB LCD IF, I2C, PWM, GPIO
	CSI-2, Display -2			UART X 2, 4 x 4 keymatrix, Memory bus
				ESAI, SPDIF, MLB, CAN2
Temperature	0 to +60℃ & Industrial*	0 to +60℃ & Industrial*	0 to +70℃ & Automotive -40 to +85℃*	commercial 0 to +70℃
Form factor	70x70mm	70x70mm (Q7 size）	85mm X 85mm (MXM-3 form factor)	70x70mm (Q7 size）
				
Note:	The features mentioned with * mark are optional items which will not be supported in the default configuration. For more information, please contact iWave systems.			