

Applications	DPF model	Photo Only		
Category	Platform Series	MP630AECG	MP630DTCG	MP661ECG
Operation Voltage	Vcore	1.8V	1.8V	1.2V
	Vio Voltage	3.3V/ 1.8V	3.3V/ 1.8V	3.3V/ 1.8V
OS/Speed	Operating System	ultron	ultron	ultron
	Core Speed	96/120MHz	96/120MHz	120/166MHz
Package	IC Package	128-QFP	144-TQFP	128-PQFP
Display	Panel interface (Digital, Analog, LVDS)	Analog	Digital	Digital
	Max Screen resolution (Pixels)	1024x768	1024x768	1024x768
	Image signal processing	n/a	n/a	Color management/Edge detection &
SDRAM	SDRAM support	16~128Mb, 16bit	16~128Mb, 16bit	16bit
	DDR SDRAM support	n/a	n/a	n/a
Flash	MLC support (Max memory size support)	Yes, No limit w/ 8-bit ECC	Yes, No limit w/ 8-bit ECC	Yes, No limit w/ 24-bit ECC
	Boot from NAND (SLC/MLC)/ NOR	Yes	Yes	Yes
GPIO	GPIO number	7	7	4
Remote	Remote Control(IR)	Yes	Yes	Yes
Timer	Embedded RTC	Yes	Yes	Yes
Audio	Stereo or mono?	n/a	n/a	n/a
	Embedded Amplifier	n/a	n/a	n/a
	USB OTG	Yes	Yes	Yes
	USB Host/ Device			
Wireless	Bluetooth (2.0+EDR?..)	Yes	Yes	Yes
	Bluetooth support protocol			OPP, OBEX, FTP, A2DP
	WiFi (802.11 a/b/g/n?)	n/a	n/a	n/a
	GSM/Edge/GPRS?	n/a	n/a	n/a
Memory Card I/F	Support Memory card I/F	SD/MS/MMC/xD/SM	SD/MS/MMC/xD/SM	SD/MS/MMC/xD
Photo	Decoding Speed	24M Pixel/sec	24M Pixel/sec	40M pxiel/sec
	Support photo format	JPEG/ BMP/ GIF/ EXIF2.1/ DPOF	JPEG/ BMP/ GIF/ EXIF2.1/ DPOF	JPEG/ BMP/ GIF/ EXIF2.1/ EXIF2.2/ DPOF
	JPEG baseline Max resolution support	64M Pixel	64M Pixel	64K x 64K
Music	Support audio format	n/a	n/a	n/a
Video	Support Video format	n/a	n/a	n/a
	Max resolution at fps for supported format			n/a
Codec	Embedded Audio Codec?	n/a	n/a	n/a

Applications	DPF model	Photo+ Music+ Video	
Category	Platform Series	MP612XCG	MP615XCG
Operation Voltage	Vcore	1.8V	1.8V
	Vio Voltage	3.3V/ 1.8V	3.3V/ 1.8V
OS/Speed	Operating System	ultron	ultron
	Core Speed	96MHz	96MHz
Package	IC Package	256 LFBGA	256 LFBGA
Display	Panel interface (Digital, Analog, LVDS)	Digital and Analog(YPbPr/ YCbCr up to D4, RGB/CVBS/ S-video)	Digital and Analog(YPbPr/ YCbCr up to D4, RGB/CVBS/ S-video)
	Max Screen resolution (Pixels)	1366x768	1366x768
	Image signal processing	Yes	Yes
SDRAM	SDRAM support	16~256Mb, 16bit	16~256Mb, 16bit
	DDR SDRAM support	Yes	Yes
Flash	MLC support (Max memory size support)	Yes, No limit w/ 4-bit ECC	Yes, No limit w/ 4-bit ECC
	Boot from NAND (SLC/MLC)/ NOR	NOR only	NOR only
GPIO	GPIO number	32	
Remote	Remote Control(IR)	Yes	Yes
Timer	Embedded RTC	Yes	Yes
Audio	Stereo or mono?	n/a	n/a
	Embedded Amplifier	n/a	n/a
	USB OTG		
	USB Host/ Device	Host1.1/Device2.0	Host1.1/Device2.0
Wireless	Bluetooth (2.0+EDR?..)	n/a	n/a
	Bluetooth support protocol	n/a	n/a
	WiFi (802.11 a/b/g/n?)	n/a	n/a
	GSM/Edge/GPRS?	n/a	n/a
Memory Card I/F	Support Memory card I/F	SD/MS/MMC/xD/CF	SD/MS/MMC/xD/CF
Photo	Decoding Speed	48M Pixel/sec	48M Pixel/sec
	Support photo format	JPEG/BMP/GIF/TIF	JPEG/BMP/GIF/TIF
	JPEG baseline Max resolution support	64M Pixel	64M Pixel
Music	Support audio format	MP3, WMA	MP3, WMA
Video	Support Video format	MPEG1, MPEG4, MJPEG	MPEG1, MPEG4, MJPEG
	Max resolution at fps for supported format	QVGA@30	D1@30
Codec	Embedded Audio Codec?	n/a	n/a

Applications	DPF model	Photo+ Music+ Video		
Category	Platform Series	MP600BUG	MP620DUCG	MP620AUCG
Operation Voltage	Vcore	1.8V	1.8V	1.8V
	Vio Voltage	3.3V/ 1.8V	3.3V/ 1.8V	3.3V/ 1.8V
OS/Speed	Operating System	ultron	ultron	ultron
	Core Speed	96MHz	96/120MHz	96/120MHz
Package	IC Package	216 LQFP	216-LQFP	216-LQFP
Display	Panel interface (Digital, Analog, LVDS)	Digital	Digital/ Analog	Analog
	Max Screen resolution (Pixels)	1366x768	1024x768	1024x768
	Image signal processing	Yes	Yes	Yes
SDRAM	SDRAM support	4Mx16	16~256Mb, 16bit	16~256Mb, 16bit
	DDR SDRAM support	Yes	Yes	Yes
Flash	MLC support (Max memory size support)	Yes, No limit w/ 4-bit ECC	Yes, No limit w/ 8-bit ECC	Yes, No limit w/ 8-bit ECC
	Boot from NAND (SLC/MLC)/ NOR		Yes	Yes
GPIO	GPIO number	8	8	8
Remote	Remote Control(IR)	Yes	Yes	Yes
Timer	Embedded RTC	Yes	Yes	Yes
Audio	Stereo or mono?	Stereo	Stereo	Stereo
	Embedded Amplifier	Yes	Yes	Yes
	USB OTG		Yes	Yes
	USB Host/ Device	Host1.1/Device2.0	Yes	Yes
Wireless	Bluetooth (2.0+EDR?..)	n/a	Yes	Yes
	Bluetooth support protocol	n/a		
	WiFi (802.11 a/b/g/n?)	n/a	Yes/ No	Yes/ No
	GSM/Edge/GPRS?	n/a	Yes/ No	Yes/ No
Memory Card I/F	Support Memory card I/F	SD/MS/MMC/xD/CF	SD/MS/MMC/xD/SM	SD/MS/MMC/xD/SM
Photo	Decoding Speed	32M Pixel/sec	24M Pixel/sec	24M Pixel/sec
	Support photo format	JPEG	JPEG/ BMP/ GIF/ EXIF2.1/ / DPOF	JPEG/ BMP/ GIF/ EXIF2.1/ / DPOF
	JPEG baseline Max resolution support	64M Pixel	64M Pixel	64M Pixel
Music	Support audio format	MP3, WMA	MP3/ WMA/ WAV	MP3/ WMA/ WAV
Video	Support Video format	MJPEG	MJPEG/WMV	MJPEG/WMV
	Max resolution at fps for supported format	VGA@30	VGA@30	VGA@30
Codec	Embedded Audio Codec?	Audio DAC	Audio DAC	Audio DAC

Applications	DPF model	Photo+ Music+ Video		
Category	Platform Series	MP622DUCG	MP662WTCG	MP650UCG
Operation Voltage	Vcore	1.8V	1.2V	1.2V
	Vio Voltage	3.3V/ 1.8V	3.3V/ 1.8V	1.8V/2.5V/3.3V
OS/Speed	Operating System	ultron	ultron	u-iTron
	Core Speed	96/120MHz	120/166MHz	138/166MHz
Package	IC Package	256-LQFP	128-PQFP	TQFP
Display	Panel interface (Digital, Analog, LVDS)	Digital	Digital	Digital
	Max Screen resolution (Pixels)	1024x768	1024x768	1280x800
	Image signal processing	Yes	Color management/Edge detection & enhancement	Color management/Edge detection & enhancement
SDRAM	SDRAM support	16~256Mb, 16bit	16bit	16bit
	DDR SDRAM support	Yes	n/a	Yes (DDR-I)
Flash	MLC support (Max memory size support)	Yes, No limit w/ 8-bit ECC	Yes, No limit w/ 24-bit ECC	Yes, No limit w/24bit ECC
	Boot from NAND (SLC/MLC)/ NOR	Yes	Yes	Yes
GPIO	GPIO number	16	4	4
Remote	Remote Control(IR)	Yes	Yes	Yes
Timer	Embedded RTC	Yes	Yes	Yes
Audio	Stereo or mono?	Stereo	Stereo	Stereo
	Embedded Amplifier	Yes	n/a	n/a
USB	USB OTG	Yes	Yes	Yes
	USB Host/ Device	Yes		
Wireless	Bluetooth (2.0+EDR?..)	Yes	Yes	Yes
	Bluetooth support protocol		OPP, OBEX, FTP, A2DP	OPP, OBEX, FTP, A2DP
	WiFi (802.11 a/b/g/n?)	Yes	n/a	Yes
	GSM/Edge/GPRS?	Yes	n/a	Yes
Memory Card I/F	Support Memory card I/F	SD/MS/MMC/xD/SM	SD/MS/MMC/xD	SD/MS/MMC/xD
Photo	Decoding Speed	24M Pixel/sec	40M pxiel/sec	40M pxiel/sec
	Support photo format	JPEG/ BMP/ GIF/ EXIF2.1/ DPOF	JPEG/ BMP/ GIF/ EXIF2.1/ EXIF2.2/ DPOF	JPEG/ BMP/ GIF/ EXIF2.1/ EXIF2.2/ DPOF
	JPEG baseline Max resolution support	64M Pixel	64K x 64K	64K x 64K
Music	Support audio format	MP3/ WMA/ WAV	MP3/ WMA/ WAV	MP3/ WMA/ WAV/ AAC/ AAC+
Video	Support Video format	MJPEG/WMV	MJPEG	MJPEG/ MPEG1, 2, 4/ H.263/ H.264/FLV
	Max resolution at fps for supported format	VGA@30	1280x720@24fps	1280x720@30fps
Codec	Embedded Audio Codec?	Audio DAC	n/a	Audio DAC

Applications	DPF model	Photo+ Music+ Video	
Category	Platform Series	MP652WUCG	MP656UCG
Operation Voltage	Vcore	1.2V	1.2V
	Vio Voltage	1.8V/2.5V/3.3V	1.8V/2.5V/3.3V
OS/Speed	Operating System	u-iTron	u-iTron
	Core Speed	138/166MHz	138/166MHz
Package	IC Package	LQFP	LQFP
Display	Panel interface (Digital, Analog, LVDS)	Digital	Digital
	Max Screen resolution (Pixels)	1280x800	1280x800
	Image signal processing	Color management/Edge detection & enhancement	Color management/Edge detection & enhancement
SDRAM	SDRAM support	16bit	16bit
	DDR SDRAM support	Yes (DDR-I)	Yes (DDR-I)
Flash	MLC support (Max memory size support)	Yes, No limit w/24bit ECC	Yes, No limit w/24bit ECC
	Boot from NAND (SLC/MLC)/ NOR	Yes	Yes
GPIO	GPIO number	8	8
Remote	Remote Control(IR)	Yes	Yes
Timer	Embedded RTC	Yes	Yes
Audio	Stereo or mono?	Stereo	Stereo
	Embedded Amplifier	n/a	n/a
	USB OTG	Yes	Yes
	USB Host/ Device		
Wireless	Bluetooth (2.0+EDR?..)	Yes	Yes
	Bluetooth support protocol	OPP, OBEX, FTP, A2DP	OPP, OBEX, FTP, A2DP
	WiFi (802.11 a/b/g/n?)	Yes	Yes
	GSM/Edge/GPRS?	Yes	Yes
Memory Card I/F	Support Memory card I/F	SD/MS/MMC/xD/CF	SD/MS/MMC/xD/CF
Photo	Decoding Speed	40M pxel/sec	40M pxel/sec
	Support photo format	JPEG/ BMP/ GIF/ EXIF2.1/ EXIF2.2/ DPOF	JPEG/ BMP/ GIF/ EXIF2.1/ EXIF2.2/ DPOF
	JPEG baseline Max resolution support	64K x 64K	64K x 64K
Music	Support audio format	MP3/ WMA/ WAV/ AAC/ AAC+	MP3/ WMA/ WAV/ AAC/ AAC+
Video	Support Video format	MJPEG/ MPEG1, 2, 4/ H.263/ H.264/FLV	MJPEG/ MPEG1, 2, 4/ H.263/ H.264/FLV
	Max resolution at fps for supported format	1280x720@30fps	1280x720@30fps
Codec	Embedded Audio Codec?	Audio DAC	Audio DAC