

TX module quick selection guide



	TX25	TX28S	TX28	TX48	TX53-80/81	TX53-10/13	TX6Q-10/11
CPU	i.MX257	i.MX283	i.MX287	AM3354	i.MX537	i.MX535	i.MX6Q5
Maximum Clock	400MHz	454MHz	454MHz	720MHz	800MHz	1.2GHz	1GHz
Core	ARM926EJ-S	ARM926EJ-S	ARM926EJ-S	Cortex-A8	Cortex-A8	Cortex-A8	Quad Cortex-A9
Main Memory	64MB	64MB	128MB	256MB	512MB	512MB/1GB	1GB
Type	SDRAM	DDR2	DDR2	DDR3	DDR3	DDR3	DDR3
Main memory bus width	16 bit	16 bit	16 bit	16 bit	32 bit	32 bit	64 bit
NAND Flash	128MB	128MB	128MB	128MB	128MB	128MB	128MB
Power supply / PMIC	fixed	integrated	integrated	LTC3589	LTC3589	LTC3589	LTC3676
Real Time Clock (RTC)	-	-	DS1339	DS1339	DS1339	DS1339	DS1339
Touch Screen Controller	yes	yes	yes	yes	-	-	-
Size	26mm	26mm	26mm	26mm	31mm	31mm	31mm
Temperature range	-40..85°C	0..70°C	-40..85°C	-40..85°C	-40..85°C	-20..70°C	-20..70°C
I/O voltage	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V
Development platform	Starterkit 5	Starterkit 5	Starterkit 5	Starterkit 5	Starterkit 5	Starterkit 5	Starterkit 5
Industrial interfaces							
CAN	2	-	2	2	2	-	2
UARTs	5	6	6	6	5	5	5
IEEE1588 support	-	-	yes	yes	yes	-	yes
Display and multimedia features							
max. recommended LCD resolution	VGA 640x480	WVGA 800x480	WVGA 800x480	WXGA 1366x768	WXGA 1366x768	UXGA 1080p 1600x1200	4XGA 1080p 2048x1536
Graphics Acceleration				yes	yes	yes	yes
Video Codec	-	-	-	-	yes	yes	yes
CMOS camera interface	1	-	-	-	2	2	2
LCD interface	24bit	24bit	24bit	24bit	24bit/LVDS	24bit/LVDS	24bit/LVDS
Analog TV out / PCI Express	-	-	-	-	TV out	TV out	PCIe v2.0
Common TX features							
10/100 Ethernet	1	1	2	2	1	1	1
USB ports	2	2	2	2	2	2	2
I2C / SPI	yes	yes	yes	yes	yes	yes	yes
SD interface	1	1	1	1	2	2	2
Serial audio ports	2	1	2	1	2	2	2
Special features							
External memory interface	8 bit	-	-	-	16 bit	16 bit	16 bit
SATA	-	-	-	-	- / SATA	- / SATA	- / SATA

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