

TX module quick selection guide



	TX25	TX27	TX28	TX28S	TX51	TX53	TX53
CPU	i.MX257	i.MX27	i.MX287	i.MX283	i.MX515	i.MX537	i.MX535
Maximum Clock	400MHz	400MHz	454MHz	454MHz	800MHz	800MHz	1GHz/1.2GHz
Core	ARM926EJ-S	ARM926EJ-S	ARM926EJ-S	ARM926EJ-S	Cortex-A8	Cortex-A8	Cortex-A8
Main Memory	64MB	64MB/128MB	128MB	64MB	128MB/256MB	512MB/1GB	512MB/1GB
Type	SDRAM	mobile DDR	DDR2	DDR2	mobile DDR	DDR3	DDR3
Main memory bus width	16 bit	32 bit	16 bit	16 bit	32 bit	32 bit	32 bit
NAND Flash	- 128MB -						
Power supply / PMIC	fixed	LP3972	integrated	integrated	LP3972 / fixed	LTC3589	LTC3589
Real Time Clock (RTC)	-	DS1339	DS1339	-	DS1339	DS1339	DS1339
Touch Screen Controller	yes	-	yes	yes	-	-	-
Size	- 26mm -			- 31mm -			
For industrial use	TX25		TX28			TX53	
CAN	2	-	2	-	-	2	-
UARTs	5	6	6	6	3	5	5
I/O voltage	3.3V	1.8V	3.3V	3.3V	1.8V	3.3V	3.3V
Temperature range	-40..85°C	-20..85°C	-40..85°C	0..70°C	-20..70°C	-40..85°C	0..70°C
Accelerated multimedia		TX27			TX51	TX53	TX53
max. recommended LCD resolution	VGA (640x480)	SVGA (800x600)	WVGA (800x480)	WVGA (800x480)	WXGA (1280x800)	UXGA (1600x1200)	UXGA (1600x1200)
Hardware Video Acceleration	-	yes	-	-	yes	yes	yes
CMOS sensor interface	1	1	-	-	2	2	2
Analog TV out	-	-	-	-	yes	yes	yes
Common TX features							
10/100 Ethernet	yes	yes	yes	yes	yes	yes	yes
USB ports	2	2	2	2	2	2	2
I2C / SPI	yes	yes	yes	yes	yes	yes	yes
SD interface	1	2	1	1	2	2	2
Keypad interface	yes	yes	yes	-	yes	yes	yes
Serial audio ports	2	2	2	1	2	2	2
PWM	yes	yes	yes	yes	yes	yes	yes
1-wire	yes	yes	yes (GPIO)	yes (GPIO)	yes	yes	yes
Special features							
External memory interface	8 bit	16 bit	-	-	16 bit	16 bit	16 bit
			IEEE1588 Dual Ethernet			IEEE1588	Option: SATA, Dual LVDS