

TX module quick selection guide



	TX28/TX28S	TX48	TX53	TX6S	TX6DL	TX6Q
CPU	i.MX287/i.MX283	AM3354	i.MX537/i.MX535	i.MX6S7	i.MX6U7	i.MX6Q5
Maximum Clock	454MHz	720MHz	800MHz/1.2GHz	800MHz	800MHz	1GHz
Core	ARM926EJ-S	Cortex-A8	Cortex-A8	Cortex-A9	Dual Cortex-A9	Quad Cortex-A9
Main Memory	64 / 128 / 256MB	256MB	512MB / 1GB	256 / 512MB	1GB	1GB
Type	DDR2-400	DDR3-800	DDR3-800	DDR3-800	DDR3-800	DDR3-1066
Main memory bus width	16 bit	16 bit	32 bit	16 / 32 bit	64 bit	64 bit
NAND Flash	128MB	128MB	128MB	128MB / 4GB	128MB / 4GB	128MB / 8GB
Power supply / PMIC	integrated	LTC3589	LTC3589	RN5T567	RN5T567	LTC3676/RN5T618
Real Time Clock (RTC)	DS1339/-	DS1339	DS1339	i.MX6	DS1339/i.MX6	DS1339/i.MX6
Res. Touch Screen Controller	✓	✓	-	-	-	-
Size	26mm	26mm	31mm	31mm	31mm	31mm
Temperature range	-40..85°C/0..70°C	-40..85°C	-40..85°C/-20..70°C	-40(-25)..85°C	-40(-25)..85°C	-20..70°C
Power consumption (bootloader prompt)	0,8W/1W	1W	1,3W	2W	2,5W	2,5W
Processor grade	industrial/consumer	industrial	industrial/consumer	industrial	industrial	consumer
Industrial interfaces						
CAN	2/-	2	2/-	2	2	2
UARTs	6	6	5	5	5	5
IEEE1588 support	✓/ -	✓	✓/ -	-	-	-
Display and multimedia features						
max. recommended LCD resolution	800x480	1366x768	1600x1200	1600x1200	1920x1200	2048x1536
Graphics Acceleration	-	✓	✓	✓	✓	✓
Video Codec	-	-	✓	✓	✓	✓
CMOS camera interface	-	-	2	2	2	2
LCD interface	24bit	24bit	24bit/LVDS	24bit	24bit/LVDS	24bit/LVDS
Analog RGB out / PCI Express	-	-	RGB out	PCIe v2.0	PCIe v2.0	PCIe v2.0
Common TX features						
10/100 Ethernet	2/1	1	1	1	1	1
USB ports	2	2	2	2	2	2
I2C / SPI	✓	✓	✓	✓	✓	✓
SD interface	1	1	2	2	2	2
Serial audio ports	2/1	1	2	2	2	2
Special features						
External memory interface	-	-	16 bit	16 bit	16 bit	16 bit / -
SATA	-	-	LVDS version only	-	-	LVDS version only
Operating System Support						
Windows Embedded CE 6.0 / Compact 7	✓/✓	- /✓	- /✓	- /✓	- /✓	- /✓

