

True USB Programmer Comparison Table

True USB GQ-4X - True USB GQ-3X - True USB GQ-2X

Model	True USB GQ-4X	True USB GQ-3X	True USB GQ-2X
Programmer type	True USB	True USB	True USB
Other names/Alias	USB willem/ True USB PRO	USB willem/ True USB	USB Willem/ True USB
PC Interface/data communication	True USB:USB-USB	True USB:USB-USB	True USB:USB-USB
With own Enclosure	Yes	None	None
Support more DIP chips	Yes	-	-
Pin count ZIF socket	40pin	32pin	32pin
Fully Automatic	Yes	Yes	No (Manual set needed)
Jumpers on board	None	None	None
Special developed software for True USB willem	Yes	Yes	Yes
CPLD JTAG Programming	Yes	No	No
Fast mode SPI devices (eg. SST25VF040B/80B/160B)	Yes	No	No
Free life-time software updates regularly	Yes	Yes	Yes
Total cable number required	One USB cable	One USB cable	One USB cable
Support 25VF series	Yes	Yes (partial)	No

Support 25LF series	Yes	Yes (partial)	No
Support TSOP48	Yes	Yes	Yes
Support PSOP44	Yes	Yes	Yes
Support 16bit	Yes	Yes	Yes
Dual Power supply capability	Yes (USB & AC/DC) auto detection/switching	Yes (USB & AC/DC) auto detection/switching	Yes (USB & AC/DC)
Supported Vcc range	3.6V, 5V, 5.5V, 6.5V	3.6V, 5V, 5.5V, 6.5V	3.6V, 5V, 5.5V, 6.5V
Supported Vpp range	0V,5V,12V,12.7V,15V,21V,25V	0V,5V,12V,12.7V,15V,21V,25V	0V,5V,12.7V,15V,21V,25V
Auto voltage Control	Yes	Yes	Yes
Working with laptop w/o parallel port	Yes	Yes	Yes
Programmer Speed performance	★★★★★	★★★★★	★★★★★
Programming Speed sample (read)	25 sec. for (AM29LV320) 13 sec. for (AT49LV1614)	25 sec. for (AM29LV320) 13 sec. for (AT49LV1614)	-
Multi-tasking CPU usage	10%	10%	10%
Support software O/S	Win98SE/Me/XP/NT/2k/vista/7 Both 32bit and 64bit	Win98SE/Me/XP/NT/2k/vista/7 Both 32bit and 64bit	Win98SE/Me/XP/NT/2k 32 bit only
Allow User add device on software simply	Yes	Yes	Yes
Device search/ History memory	Yes	Yes	No
Works Stable with EPROMs	Yes	Yes	Yes
Mechanic DIP Switch/Electronics Switch on board	None	None	Mechanic DIP Switch

Programmer board dimension~ (cm)	15 x 9 x 2	15 x 8 x 1.5	15 x 8 x 1.5
Working set weight(~)	~250g	~200g	~190g
Status	Active	Active	Legacy
Manufacturer	MCUmall Electronics Inc.	MCUmall Electronics Inc.	MCUmall Electronics Inc.