

```
COM33 - Tera Term VT
File Edit Setup Control Window Help
PicoMite MMBasic RP2040 Edition V6.00.01RC9
OPTION SYSTEM SPI GP10,GP11,GP24
OPTION SYSTEM I2C GP4,GP5
OPTION FLASH SIZE 4194304
OPTION COLOURCODE ON
OPTION HEARTBEAT OFF
OPTION PICO OFF
OPTION CPUSPEED 252000 'KHz
OPTION DISPLAY 43, 89
OPTION LCDPANEL ST7789_135, LANDSCAPE,GP8,GP12,GP9,GP25
OPTION SDCARD GP23, GP18, GP19, GP20
OPTION PLATFORM RP2040-GEEK
> freepins
GP 0 1 OFF
GP 1 2 OFF
GP 2 4 OFF
GP 3 5 OFF
GP 4 6 Boot Reserved : SYSTEM I2C SDA
GP 5 7 Boot Reserved : SYSTEM I2C SCL
GP 6 9 OFF
GP 7 10 OFF
GP 8 11 Boot Reserved : LCD DC
GP 9 12 Boot Reserved : LCD CS
GP10 14 Boot Reserved : SPI SYSTEM CLK
GP11 15 Boot Reserved : SPI SYSTEM MOSI
GP12 16 Boot Reserved : LCD Reset
GP13 17 OFF
GP14 19 OFF
GP15 20 OFF
GP16 21 OFF
GP17 22 OFF
GP18 24 Boot Reserved : SD CLK
GP19 25 Boot Reserved : SD MOSI
GP20 26 Boot Reserved : SD MISO
GP21 27 OFF
GP22 29 OFF
GP23 41 Boot Reserved : SD CS
GP24 42 Boot Reserved : SPI SYSTEM MISO
GP25 43 Boot Reserved : LCD BACKLIGHT
GP26 31 OFF
GP27 32 OFF
GP28 34 OFF
GP29 44 OFF
```

> edit

### Sub FreePins

```
Local n, gp$, p, pu$
For n = 0 To 29
  gp$ = "GP" + Str$(n), 2)
  p = MM.Info(pinno gp$)
  pu$ = MM.Info(pin p)
  Print gp$, Str$(p), 2), pu$
Next
End Sub
```

**Load** the program, then type "**LIBRARY SAVE**".

Then (commandline) you can type "**FREEPINS**", and it shows you what pins on the picomite are not assigned.

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> list commands

*/	/*	ADC	Arc	Autosave
Backlight	Blit	Blit Memory	Box	Call
Camera	Case	Case Else	Cat	Chdir
Circle	Clear	Close	CLS	Color
Colour	Configure	Const	Continue	Copy
CPU	CSub	CtrlVal(	Data	Date\$
DefineFont	Device	Dim	Do	Draw3D
Drive	Edit	Edit File	Else	Else If
ElseIf	End	End CSub	End DefineFont	End Function
End If	End Select	End Sub	EndIf	Erase
Error	Execute	Exit	Exit Do	Exit For
Exit Function	Exit Sub	Files	Flash	Flush
Font	For	FRAMEBUFFER	Function	GoSub
GoTo	GUI	Humid	I2C	I2C2
If	Inc	Input	Interrupt	IR
IReturn	Keypad	Kill	LCD	Let
Library	Line	Line Input	List	Load
Local	LongString	Loop	Math	Memory
MID\$(	Mkdir	Mouse	New	Next
On	OneWire	Open	Option	Pause
Pin(	PIO	Pixel	Play	Poke
Polygon	Port(	Print	Pulse	PWM
Randomize	RBox	Read	Refresh	Rem
Rename	Restore	Return	Rmdir	RTC
Run	Save	Seek	Select Case	Servo
SetPin	SetTick	Sort	SPI	SPI2
Sprite	Static	Sub	SYNC	TEMPR START
Text	Time\$	Timer	Trace	Triangle
Update Firmware	VAR	WatchDog	While	Wii
Wii Classic	Wii Nunchuck	WS2812	XModem	

Total of 149 commands

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> list functions

*	+	-	/	<
<<	<=	<>	=	=<
=>	>	>=	>>	@(
\	^	Abs(	ACos(	And
As	Asc(	ASin(	Atan2(	Atn(
Bin\$(	Bin2str\$(	Bound(	Call(	Choice(
Chr\$(	Cint(	Cos(	CtrlVal(	Cwd\$(
Date\$(	DateTime\$(	Day\$(	Deg(	DEVICE(
Dir\$(	Distance(	Else	Eof(	Epoch(
Eval(	Exp(	Field\$(	Fix(	For
Format\$(	GoSub	GoTo	GPS(	Hex\$(
Inkey\$(	Input\$(	Instr(	Int(	INV
LCase\$(	LCompare(	Left\$(	Len(	LGetByte(
LGetStr\$(	LInStr(	LLen(	Loc(	Lof(
Log(	Math(	Max(	Mid\$(	Min(
MM.Device\$(	MM.ErrMsg\$(	MM.Errno	MM.Fontheight	MM.Fontwidth
MM.HPOS	MM.HRes	MM.I2C	MM.Info\$(	MM.Info(
MM.OneWire	MM.PS2	MM.VER	MM.VPOS	MM.VRes
MM.Watchdog	Mod	MsgBox(	Not	Oct\$(
Or	Peek(	Pi	Pin(	Pio(
Pixel(	Port(	Pos	Pulsin(	Rad(
RGB(	Right\$(	Rnd	Rnd(	Sgn(
Sin(	Space\$(	SPI(	SPI2(	sprite(
Sqr(	Step	Str\$(	Str2bin(	String\$(
Tab(	Tan(	TEMPR(	Then	Time\$(
Timer	To	Touch(	UCase\$(	Until
Val(	While	Xor		

Total of 133 functions and operators

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> files

A:/

<DIR> .

<DIR> ..

00:27	01-01-2024	1229	AES128.bas
00:00	01-01-2024	4	bootcount
00:12	01-01-2000	266	cpuspeed.bas
00:00	01-01-2024	188	freepins.bas
00:07	01-01-2024	54	helloworld.bas
00:03	01-01-2024	1176	mminfo.bas
00:10	01-01-2000	896	RP2040V6.00.01RC2.opt
00:29	01-01-2024	896	RP2040V6.00.01RC5.opt
00:08	01-01-2024	896	RP2040V6.00.01RC6.opt

2 directories, 9 files, 700416 bytes free

> load "freepins.bas"

> memory

Program:

1K ( 1%) Program (10 lines)

127K (99%) Free

Saved Variables:

16K (100%) Free

RAM:

0K ( 0%) 0 Variables

0K ( 0%) General

156K (100%) Free

> flash list

Slot 1 available

Slot 2 available

Slot 3 available

> option reset list

Game\*Mite

Pico-ResTouch-LCD-3.5

Pico-ResTouch-LCD-2.8

PICO BACKPACK

RP2040-LCD-1.28

RP2040LCD-0.96

RP2040-GEEK

> library save

> new

> flash list

Slot 1 available

Slot 2 available

Slot 3 in use: Library

> option list

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GP 2	4	OFF
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GP 6	9	OFF
GP 7	10	OFF
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GP 9	12	Boot Reserved : LCD CS
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GP11	15	Boot Reserved : SPI SYSTEM MOSI
GP12	16	Boot Reserved : LCD Reset
GP13	17	OFF
GP14	19	OFF
GP15	20	OFF
GP16	21	OFF
GP17	22	OFF
GP18	24	Boot Reserved : SD CLK
GP19	25	Boot Reserved : SD MOSI
GP20	26	Boot Reserved : SD MISO
GP21	27	OFF
GP22	29	OFF
GP23	41	Boot Reserved : SD CS
GP24	42	Boot Reserved : SPI SYSTEM MISO
GP25	43	Boot Reserved : LCD BACKLIGHT
GP26	31	OFF
GP27	32	OFF
GP28	34	OFF
GP29	44	OFF

> memory

Program:

0K (0%) Program (0 lines)

128K (100%) Free

Library:

1K (1%) Library

127K (99%) Free