

GetSystemItem

Fetch the value of a given system parameter

Description

```
GetSystemItem( item )
```

Returns the value of a given system parameter

Parameters

item | The system item to return (see below)

Parameter	Description
SYSITEM_GPSX	GPS latitude in degrees x 10 ⁶
SYSITEM_GPSY	GPS longitude in degrees x 10 ⁶
SYSITEM_GPSZ	GPS elevation in meters x 10
SYSITEM_GPSSIGNAL	Received signal level from GPS
SYSITEM_UPTIME	Number of seconds since last restart
SYSITEM_CELLINHIBIT	0=normal operation. >0 cellular modem is off, remaining seconds
SYSITEM_RSSI	Received signal level for cellular modem (0=no signal. 31=max signal strength)
SYSITEM_ETHLINK	0=No Ethernet connection. 1=Ethernet connection detected
SYSITEM_ETHCONN	0=Not using Ethernet connection. 1=Using Ethernet connection
SYSITEM_CELLCONN	0=Not using cellular connection. 1=Using cellular connection
SYSITEM_GPSLOCK	0=No current GPS position. 1=GPS position current
SYSITEM_YEAR	Real time clock, year
SYSITEM_MONTH	Real time clock, month
SYSITEM_DAY	Real time clock, day
SYSITEM_WDAY	Real time clock, weekday (0=Sunday, 6=Saturday)
SYSITEM_YDAY	Real time clock, day of year
SYSITEM_HOUR	Real time clock, hour
SYSITEM_MINUTE	Real time clock, minutes
SYSITEM_SECOND	Real time clock, seconds
SYSITEM_EPOCH	Real time clock, Epoch (number of seconds since 1970-01-01)
SYSITEM_RND	Random number
SYSITEM_OUT3RCPWM	Output 3 mode (0=0-100%, 1=1-2ms servo)
SYSITEM_RESETCAUSE	Cause of last hardware reset, bitmap or RESETCAUSE flags defined below
SYSITEM_SCRIPT_RESETCAUSE	Cause of last script restart, current script (see below)
SYSITEM_HIBERNATE	Nonzero if running as part of sleep cycle

Parameter	Description
SYSITEM_EXPn	ezeio-CAN Expander status (0=no comm, 1=comm ok), where n=1 through 7

Flags returned by SYSITEM_RESETCAUSE

constant	meaning
RESETCAUSE_EXT	Any external reset
RESETCAUSE_POR	Board was powered on
RESETCAUSE_BOR	Board detected brown-out (voltage dip)
RESETCAUSE_BOR	Software caused the reset
RESETCAUSE_WDOG	Internal watchdog caused the reset
RESETCAUSE_HIB	Board woke up from hibernation

Flags returned by SYSITEM_SCRIPT_RESETCAUSE

constant	meaning
SCRIPT_BOOT	Script started due to board reset
SCRIPT_ERROR	Script restarted due to script error
SCRIPT_USER	Script restarted by user
SCRIPT_CHANGE	Script restarted due to config change
SCRIPT_BUTTON	Script restarted with hardware button

Return value

Depends on parameter requested. See above.

Example usage

```
new x;  
  
x = GetSystemItem(SYSITEM_YEAR);  
// x is now 2019 (as of this writing)  
  
if( GetSystemItem( SYSITEM_RESETCAUSE ) & RESETCAUSE_HIB ) {  
    // this code will run if board came back from a hibernation cycle  
}
```

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<https://doc.eze.io/> - ezeio documentation

Permanent link:

<https://doc.eze.io/ezeio2/scriptref/getsystemitem>

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