

# uPHP Reference

uPHP functions have an identical syntax to PHP functions in most cases. Below is a list of all the functions that have been implemented.

Certain additional functions are available as WattmonOS include files. For a list of these see [library\\_functions](#).

Click on the function name for further details:

| FUNCTION NAME                    | PARAMETER(S)   | RETURN   | DESCRIPTION   |
|----------------------------------|--|--|---|
| <a href="#">adc_read</a>         | <a href="#">int</a> <a href="#">channel</a>  | <a href="#">int</a> ADC value                              | Read an onboard ADC <a href="#">channel</a>   |
| <a href="#">aes_decrypt</a>      | <a href="#">string</a> <a href="#">text</a> , <a href="#">int</a> <a href="#">length</a> ,<br><a href="#">string</a> <a href="#">key</a> , <a href="#">string</a> <a href="#">iv</a> | string with data   | Return an AES-decrypted string  |
| <a href="#">aes_encrypt</a>      | <a href="#">string</a> <a href="#">text</a> , <a href="#">int</a> <a href="#">length</a> ,<br><a href="#">string</a> <a href="#">key</a> , <a href="#">string</a> <a href="#">iv</a> | string with data   | Return an AES-encrypted string  |
| <a href="#">array</a>            | <a href="#">mixed</a> <a href="#">values</a> ...   | <a href="#">array</a>                                      | Create an <a href="#">array</a> , with optional <a href="#">values</a>                        |
| <a href="#">array_key</a>        | <a href="#">array</a> , <a href="#">int</a> <a href="#">index</a>  | <a href="#">string</a> <a href="#">key</a>                 | Return the key for an <a href="#">array</a> <a href="#">index</a>                             |
| <a href="#">array_keys</a>       | <a href="#">array</a> with key/value pairs   | <a href="#">array</a> of keys                              | Return keys for an <a href="#">array</a> that has key/value pairs                             |
| <a href="#">array_resize</a>     | <a href="#">array</a> indexed array, <a href="#">int</a> <a href="#">length</a>  | none   | Resize indexed <a href="#">array</a>  |
| <a href="#">base64_decode</a>    | <a href="#">string</a> <a href="#">base64</a>  | <a href="#">string</a> decoded<br>or <a href="#">int</a> 0 | Decode a base64-encoded <a href="#">string</a>  |
| <a href="#">base64_encode</a>    | <a href="#">string</a> to encode   | <a href="#">string</a> base64<br>or <a href="#">int</a> 0  | Return the base64-encoded version of a <a href="#">string</a>                                 |
| <a href="#">call_user_func</a>   | <a href="#">string</a> <a href="#">function_name</a> ,<br><a href="#">mixed</a> <a href="#">parameters</a> ...   | <a href="#">mixed</a> result                               | Call a user defined function with optional <a href="#">parameters</a>                         |
| <a href="#">charat</a>           | <a href="#">string</a> , <a href="#">int</a> <a href="#">index</a>   | <a href="#">int</a> ASCII code                             | Return the ASCII code for a character in a <a href="#">string</a> at an <a href="#">index</a> |
| <a href="#">chdir</a>            | <a href="#">string</a> <a href="#">directory</a>   | <a href="#">int</a> 0=OK                                   | Change the current directory  |
| <a href="#">chr</a>              | <a href="#">int</a> <a href="#">code</a>   | <a href="#">string</a> 1<br>character                      | Return the character for an ASCII <a href="#">code</a>  |
| <a href="#">clear_watchdog</a>   |  |  | Clear the software watchdog timer   |
| <a href="#">cos</a>              | <a href="#">number</a> <a href="#">radian_angle</a>  | <a href="#">float</a> cosine                               | Return cosine of a <a href="#">radian_angle</a>   |
| <a href="#">debug</a>            | <a href="#">string</a> <a href="#">output</a>  |  | Print to debug output   |
| <a href="#">debugout</a>         | <a href="#">int</a> 0 or 1   |  | Enable or disable debug messages  |
| <a href="#">die</a>              |  |  | Kill the script   |
| <a href="#">disk_free_space</a>  | <a href="#">int</a> <a href="#">drive</a>  | <a href="#">int</a> KiloBytes                              | Return free space on drive  |
| <a href="#">disk_status</a>      | <a href="#">int</a> <a href="#">drive</a>  | <a href="#">int</a> Status                                 | Return mount status of drive  |
| <a href="#">disk_total_space</a> | <a href="#">int</a> <a href="#">drive</a>  | <a href="#">int</a> KiloBytes                              | Return total space on drive   |
| <a href="#">error_reporting</a>  | <a href="#">int</a> <a href="#">verbosity</a>  |  | Set the debug output level  |
| <a href="#">ereg</a>             | <a href="#">string</a> <a href="#">pattern</a> , <a href="#">string</a> <a href="#">content</a> [, & <a href="#">array</a> <a href="#">matches</a> ]                                 | <a href="#">int</a>  | Perform a regex operation   |
| <a href="#">exec</a>             | <a href="#">string</a> <a href="#">script</a> , <a href="#">int</a> <a href="#">delay</a>  |  | Run a <a href="#">script</a> with an optional <a href="#">delay</a>                           |
| <a href="#">exec_action</a>      | <a href="#">mixed</a> <a href="#">action</a>   | <a href="#">int</a> 1=OK                                   | Triggers a manually executable <a href="#">action</a> by id or name                           |

| FUNCTION NAME                  | PARAMETER(S)  | RETURN   | DESCRIPTION  |
|--------------------------------|---|--|--|
| <a href="#">explode</a>        | <a href="#">string</a> , <a href="#">string delimiter</a>   | <a href="#">array</a>  | Turn a <a href="#">string</a> into an <a href="#">array</a>  |
| <a href="#">f485open</a>       | <a href="#">int baud</a> , <a href="#">int parity</a>   | <a href="#">int</a> handle or 0  | Open the RS-485 port at the specified <a href="#">baud</a> rate and <a href="#">parity</a>                     |
| <a href="#">fclose</a>         | <a href="#">int handle</a>  |  | Close a file, stream or socket   |
| <a href="#">feof</a>           | <a href="#">int handle</a>  | <a href="#">int</a> 1 or 0   | Test if no more data is available in a file, stream or socket  |
| <a href="#">fgets</a>          | <a href="#">int handle</a> , <a href="#">int size</a>   | <a href="#">string</a> or <a href="#">int</a> -1   | Return a single line from a file, stream or socket, with optional <a href="#">size</a> limit                   |
| <a href="#">file_exists</a>    | <a href="#">string filename</a>   | <a href="#">int</a> 1 or 0   | Check if a file exists   |
| <a href="#">filesize</a>       | <a href="#">string filename</a> or <a href="#">int handle</a>   | <a href="#">int</a> bytes  | Return the size of a file, or the number of unread bytes in a stream or socket                                 |
| <a href="#">findfirst</a>      | <a href="#">string pattern</a> , <a href="#">int attributes</a>   | <a href="#">array</a> first file found   | Start searching the current folder for files matching a <a href="#">pattern</a> and <a href="#">attributes</a> |
| <a href="#">findnext</a>       |   | <a href="#">array</a> next file found  | Return next matching file information (after a findfirst)  |
| <a href="#">firmwareupdate</a> |   |  | Initiate a firmware update sequence and reboot the device  |
| <a href="#">floatval</a>       | <a href="#">mixed value</a>   | <a href="#">float</a> value or <a href="#">int</a> 0/1   | Return the <a href="#">float</a> value of a <a href="#">number</a> or <a href="#">string</a>                   |
| <a href="#">flush</a>          | <a href="#">socket</a> socket to flush  |  | Flush current output or socket to the browser  |
| <a href="#">fopen</a>          | <a href="#">string filename</a> , <a href="#">string mode</a>   | <a href="#">int</a> handle or 0  | Open a file for reading or writing   |
| <a href="#">fread</a>          | <a href="#">int handle</a> , <a href="#">int bytes</a>  | <a href="#">string</a> or <a href="#">int</a> 0  | Read <a href="#">bytes</a> from a file, stream or socket   |
| <a href="#">fread_unpack</a>   | <a href="#">int handle</a> , <a href="#">string format</a> , <a href="#">int count</a> , <a href="#">int interval</a> | <a href="#">number</a>   | Write contents of an indexed array to a file in binary   |
| <a href="#">freemem</a>        |   | <a href="#">int</a> bytes  | Return free memory space   |
| <a href="#">freestack</a>      |   | <a href="#">int</a> bytes  | Return free stack space  |
| <a href="#">fseek</a>          | <a href="#">int handle</a> , <a href="#">int offset</a> , <a href="#">int whence</a>                                  |  | Position the file pointer in an open file  |
| <a href="#">fseropen</a>       | <a href="#">int baud</a> , <a href="#">int blocking</a> , <a href="#">int invert</a> , <a href="#">int parity</a>     | <a href="#">int</a> handle or 0  | Open the serial port at the specified <a href="#">baud</a> rate with optional parameters                       |
| <a href="#">fsockopen</a>      | <a href="#">string host</a> , <a href="#">int port</a> , <a href="#">int timeout</a>                                  | <a href="#">int</a> handle or 0  | Open an internet socket connection with optional <a href="#">timeout</a>                                       |
| <a href="#">ftell</a>          | <a href="#">int handle</a>  | <a href="#">int</a> position   | Return the current position of a file read/write pointer   |
| <a href="#">ftp_command</a>    | <a href="#">string result</a>   | <a href="#">string</a> command]  | Send an FTP command  |
| <a href="#">ftp_close</a>      | <a href="#">int result</a>  |  | Close an active connection with FTP server   |
| <a href="#">ftp_download</a>   | <a href="#">int result</a>  | <a href="#">string</a> remote_file, <a href="#">string</a> local_file, [ <a href="#">int</a> position] | Initiate a download of a remote file   |
| <a href="#">ftp_error</a>      | <a href="#">int result</a>  |  | Get last FTP response code   |
| <a href="#">ftp_is_busy</a>    | <a href="#">int result</a>  |  | Check if the FTP engine is busy  |

|                   |  |   |   |
|-------------------|--|---|---|
| ftp_is_connected  | int result   |   | Check if the FTP connection is active   |
| ftp_is_connecting | int result   |   | Check if the FTP connection is in the process of connecting                   |
| ftp_list          | int result   | string folder, string output_file                       | Lists a folder on the FTP server and outputs the result to the specified file |
| ftp_open          | int result   | string host, int port, string username, string password | Open a connection to an FTP server  |
| ftp_size          | int size   | string filename   | Get the file size of a file on the FTP server                                 |
| ftp_status        | array status   |   |   |
| ftp_upload        | int result   | string remote_file, string local_file, [int position]   | Initiate an upload of a file  |
| function_exists   | string function_name                                       | int 1 or 0  | Check if a function exists (custom or native)                                 |
| fwrite            | int handle, mixed data, int length                         | int bytes written or -1                                 | Write data to a file, stream or socket  |
| fwrite_pack       | int handle, array data, int length                         | number  | Write contents of an indexed array to a file in binary                        |
| get3gstat         |  | array   | Get cellular data connection status information                               |
| getcwd            |  | string path   | Get the current directory   |
| getethstat        |  | array   | Get Ethernet connection status information                                    |
| getmac            |  | string MAC  | Get the Wattmon's MAC address   |
| getusbstat        |  | array   | Get USB host status information   |
| getwifistat       |  | array   | Get WIFI status information   |
| header            | string header_data   |   | Add to HTTP header  |
| hash_hmac         | string algorithm, string data, string key                  | string converted  | Generate a keyed hash value using the HMAC method                             |
| htmlspecialchars  | string data  | string converted  | Convert special characters for display in HTML                                |
| ieee754toint      | float value  | int representation                                      | Convert a float value to an IEEE-754 encoded integer (32 bit)                 |
| implode           | array, string delimiter                                    | string  | Turn an array into a string   |
| include           | string filename  |   | Include a file within the current script at the current location              |
| indexed_array     | int type, int size   | array   | Create an array of a specific type and size                                   |
| ini_get           | string filename, string section, string key, mixed default | mixed value   | Get a value from an INI file  |
| ini_get_array     | string filename, string section                            | array   | Get a group of parameters from an INI file as an array                        |

|                                       |  |  |   |
|---------------------------------------|--|--|---|
| <a href="#">ini_put_array</a>         | <a href="#">string filename</a> , <a href="#">array data</a> , <a href="#">string section</a>  |  | Write a group of parameters to an INI file from an <a href="#">array</a>  |
| <a href="#">ini_set</a>               | <a href="#">string filename</a> ,<br><a href="#">string section</a> , <a href="#">string key</a> , <a href="#">mixed value</a>   | <a href="#">int 1=OK</a>                 | Set a <a href="#">value</a> in an INI file  |
| <a href="#">init_watchdog</a>         | <a href="#">int interval</a>   |  | Initialize the software watchdog timer  |
| <a href="#">inttoieee754</a>          | <a href="#">int representation</a>   | <a href="#">float value</a>              | Convert an IEEE-754 encoded <a href="#">integer representation</a> (32 bit) to a <a href="#">float</a>                        |
| <a href="#">intval</a>                | <a href="#">mixed value</a>  | <a href="#">int value</a>                | Return the <a href="#">integer</a> value of a <a href="#">number</a> or <a href="#">string</a>                                |
| <a href="#">is_array</a>              | <a href="#">mixed variable</a>   | <a href="#">int 1 or 0</a>               | Check if a <a href="#">variable</a> is an <a href="#">array</a>   |
| <a href="#">is_float</a>              | <a href="#">mixed variable</a>   | <a href="#">int 1 or 0</a>               | Check if a <a href="#">variable</a> is a <a href="#">float</a>  |
| <a href="#">is_int</a>                | <a href="#">mixed variable</a>   | <a href="#">int 1 or 0</a>               | Check if a <a href="#">variable</a> is an <a href="#">integer</a>   |
| <a href="#">is_numeric</a>            | <a href="#">mixed value</a>  | <a href="#">int 1 or 0</a>               | Check if a <a href="#">value</a> is numeric ( <a href="#">int</a> , <a href="#">float</a> or numeric <a href="#">string</a> ) |
| <a href="#">is_string</a>             | <a href="#">mixed variable</a>   | <a href="#">int 1 or 0</a>               | Check if a <a href="#">variable</a> is a <a href="#">string</a>   |
| <a href="#">isset</a>                 | <a href="#">mixed variable</a>   | <a href="#">int 1 or 0</a>               | Check if a <a href="#">variable</a> exists  |
| <a href="#">json_encode</a>           | <a href="#">array</a> , <a href="#">int method</a>   | <a href="#">string</a>                   | JSON encode an <a href="#">array</a> into a <a href="#">string</a> , with optional <a href="#">method</a>                     |
| <a href="#">ln</a>                    | <a href="#">number number</a>  | <a href="#">float log<sub>e</sub></a>    | Return the natural logarithm of a <a href="#">number</a>  |
| <a href="#">log</a>                   | <a href="#">string output</a> , <a href="#">string file</a>  |  | Print to the System Log (or optional <a href="#">file</a> )   |
| <a href="#">log10</a>                 | <a href="#">number number</a>  | <a href="#">float log<sub>10</sub></a>   | Return the base 10 logarithm of a <a href="#">number</a>  |
| <a href="#">mail</a>                  | <a href="#">string recipient</a> ,<br><a href="#">string subject</a> , <a href="#">string body</a>   | <a href="#">int 0 or SMTP error code</a> | Send an email [deprecated]  |
| <a href="#">max_execution_time</a>    | <a href="#">int seconds</a>  |  | Set the maximum execution time for the current script   |
| <a href="#">mb_add_dev</a>            | <a href="#">int id</a> , <a href="#">int type</a> , <a href="#">string name</a> , <a href="#">int poll_interval</a> , <a href="#">int status</a> , <a href="#">int bus</a> | <a href="#">int 0=OK</a>                 | Add a device to the list of polled devices  |
| <a href="#">mb_delete_dev</a>         | <a href="#">int id</a>   | <a href="#">int 1=OK</a>                 | Delete a device from the list of active devices   |
| <a href="#">mb_get_dev_by_id</a>      | <a href="#">int id</a>   | <a href="#">array</a>                    | Return modbus device details by <a href="#">id</a>  |
| <a href="#">mb_get_dev_by_index</a>   | <a href="#">int index</a>  | <a href="#">array</a>                    | Return modbus device details by <a href="#">index</a>   |
| <a href="#">mb_get_dev_by_name</a>    | <a href="#">string name</a>  | <a href="#">array</a>                    | Return modbus device details by <a href="#">name</a>  |
| <a href="#">mb_get_dev_info</a>       | <a href="#">int type</a>   | <a href="#">array</a>                    | Return modbus device details by <a href="#">type</a>  |
| <a href="#">mb_get_role_array</a>     |  | <a href="#">array</a>                    | Return an <a href="#">array</a> of all roles and their values   |
| <a href="#">mb_get_status_by_role</a> | <a href="#">int role</a>   | <a href="#">int 1=OK</a>                 | Return status of the device attached to the <a href="#">role</a>  |
| <a href="#">mb_get_val_by_role</a>    | <a href="#">int role</a>   | <a href="#">number</a>                   | Return value of the <a href="#">role</a>  |

|                    |  |                                    |   |
|--------------------|--|------------------------------------|---|
| mb_num_devices     |  | int                                | Return number of devices on the modbus  |
| mb_queue_command   | mixed values ...   | array of numbers                   | Queue a sequence of characters to the RS-485 bus and get but ignore the reply |
| mb_scan_complete   |  | int 1=complete, 0=ongoing          | Check to see if a modbus scan has completed                                   |
| mb_scan_percent    |  | number percent completed           | Return scan percentage completed  |
| mb_send_command    | mixed values ...   | array of numbers                   | Send a sequence of characters to the RS-485 bus and get a reply               |
| mb_set_dev_var     | string name or int id, string variable, mixed value            | int 1=OK                           | Set a variable on a modbus device   |
| mb_set_val_by_role | int role, number value   | int 1=OK                           | Set a role value on a modbus device   |
| mb_start_scan      | int start, int end   |                                    | Initiate an automatic scan of the modbus                                      |
| md5                | string input   | string 32 characters               | Calculate the MD5 hash of a string  |
| md5_file           | string filename  | string 32 characters               | Calculate the MD5 hash of a file  |
| mem_dump           |  |                                    | Write the current memory map to /dump.txt                                     |
| mem_usage          |  |                                    | Write memory usage to standard output   |
| microtime          |  | int ms                             | Return the number of milliseconds since boot                                  |
| mkdir              | string pathname  | int 0 or error code                | Make a directory  |
| mktime             | int hour, int minute, int second, int month, int day, int year | int seconds                        | Return the Linux Timestamp for a given date and time                          |
| mqtt_disconnect    |  |                                    | Disconnect MQTT connection  |
| mqtt_publish       | string channel, string content                                 | int 1 for success or 0 for error   | Publish a message to an MQTT server   |
| mqtt_subscribe     | string channel, string callback                                | int 1 for success or 0 for error   | Subscribe to a channel on an MQTT server                                      |
| mqttstat           |  | array array with connection status | Get MQTT Connection status  |
| net_disable3g      |  |                                    | Disable 3G support for the dongle   |
| net_enable3g       |  |                                    | Enable 3G support for the dongle  |
| netstat            |  | array                              | Get Ethernet information  |
| number_format      | mixed number, int digits                                       | string formatted                   | Return the string value of a number formatted to a particular precision       |
| nvrn_backup        | string filename  | int bytes written or 0=error       | Backup the contents of NVRAM to a file on the SD Card                         |

|               |   |                            |   |
|---------------|---|----------------------------|---|
| nvram_defrag  |   |                            | Defragment <u>NVRAM</u> to optimise it  |
| nvram_dump    |   |                            | Dump the contents of <u>NVRAM</u> to standard output                          |
| nvram_free    |   | int bytes                  | Return the number of bytes available in <u>NVRAM</u>                          |
| nvram_get     | string key                                    | mixed value                | Get a value from <u>NVRAM</u>   |
| nvram_restore | string filename                               |                            | Restore the contents of <u>NVRAM</u> from a file                              |
| nvram_set     | string key, string value                      | int 1=OK                   | Set a <u>key</u> and <u>value</u> in <u>NVRAM</u>                             |
| nvram_unset   | string key                                    | int 1=OK                   | Clear a <u>key</u> from <u>NVRAM</u>  |
| ord           | string character                              | int ASCII code             | Return the ASCII code for a <u>character</u>                                  |
| ow_first      |   | array or int 0             | Initiate a OneWire bus scan and return the address of the first device found  |
| ow_next       |   | array or int 0             | Return the address of the next OneWire device found (after an ow_first)       |
| ow_read       |   | int value or 0             | Read a byte from the OneWire bus  |
| ow_read_temp  | array device_id                               | float degrees Celsius      | Read a temperature from a device on the OneWire bus                           |
| ow_reset      |   |                            | Reset the OneWire bus   |
| ow_write      | int value                                     |                            | Write a byte to the OneWire bus   |
| pack          | string format, mixed value                    | string                     | Pack a value into a <u>string</u>   |
| phpinfo       |   | string                     | Return information about the system   |
| pin_configure | int pin_index, int pin_type, int counter_type |                            | Configure an <u>I/O</u> pin as a digital input, output, or analog input       |
| pin_get       | int pin_index, int pin_type                   | int value                  | Return the value of an <u>I/O</u> pin   |
| pin_set       | int pin_index, int value                      |                            | Set a digital output to <u>value</u> 1 or 0                                   |
| ping          | string host                                   | array                      | Send an ICMP ping and place the result in an <u>array</u>                     |
| power         | number base, number exp                       | number base <sup>exp</sup> | Return <u>base</u> raised to the power of <u>exp</u>                          |
| print         | string data                                   |                            | Print <u>data</u> to the current output stream such as a web page or terminal |
| print_r       | array   |                            | Dump the contents of an <u>array</u> to the current output                    |
| printf        | string format, mixed values ...               |                            | Print a formatted <u>string</u> to standard output                            |
| process_kill  | int pid                                       |                            | Send a kill request to a process  |
| process_list  |   | array                      | Return an <u>array</u> of the currently running scripts                       |

|                   |  |                        |  |
|-------------------|--|------------------------|--|
| rand              | int min, int max   | int                    | Return a random integer between min and max                            |
| reboot            |  |                        | Reboot the processor   |
| register_callback | string callback_type, string filename, string functionname | int 0 or error code    | Register a callback function for system events                         |
| rename            | string source, string destination                          | int 0 or error code    | Rename or move a file or directory from source to destination          |
| reset             |  |                        | Reset the processor  |
| rmdir             | string pathname, int delete_contents                       | int 0=OK               | Remove a directory, with optional deletion of contents                 |
| send_sms          | string phone_number, string message                        | int result             | sends an sms through a cellular dongle                                 |
| session_destroy   |  |                        | Clear the current session's data                                       |
| session_is_new    |  | int                    | Check if a session was just initiated                                  |
| session_start     |  |                        | Initiate a new session and send the cookie data for it                 |
| set_search_path   | string pathname  |                        | Set the search path for the telnet client                              |
| setethpower       | int state  |                        | Enable or disable the ethernet controller                              |
| setpriority       | int priority   |                        | Set the priority of the current script                                 |
| settime           | int timestamp, int calibration                             |                        | Set the system time from a Linux Timestamp, with optional calibration  |
| setusbpower       | int state  |                        | Enable or disable USB power  |
| sha1              | string input   | string 40 characters   | Calculate the SHA1 hash of a string                                    |
| sin               | number radian_angle  | float sine             | Return sine of a radian_angle  |
| sizeof            | array  | int number of elements | Return the number of elements in an array                              |
| sleep             | int ms   |                        | Sleep for specified milliseconds                                       |
| snmp_trap_send    | string message   | int 0 or 1             | Send an SNMP trap message with ASCII content of source                 |
| spi_clearcs       |  |                        | Clear the CS output of the SPI bus                                     |
| spi_read          |  | int byte               | Read a byte from the SPI bus   |
| spi_setcs         |  |                        | Set the CS output of the SPI bus                                       |
| spi_write         | int byte   |                        | Write a byte to the SPI bus  |
| sprintf           | string format, mixed values ...                            | string formatted       | Return a formatted string  |
| sqr               | number number  | number squared         | Return the square of a number  |
| sqrt              | number number  | number square root     | Return the square root of a number                                     |
| stats             |  | array                  | Return system statistics   |
| str_replace       | string search, string replace, string subject              | string result          | Return the string with each occurrence of search replaced with replace |
| strftime          | string format, int timestamp                               | string formatted       | Format a Linux Timestamp using a format string                         |
| strlen            | string input   | int length             | Return the length of a string  |



|                              |  |   |   |
|------------------------------|--|---|---|
| <a href="#">strpos</a>       | <a href="#">string</a> haystack, <a href="#">string</a> needle                                       | <a href="#">int</a> position or -1      | Return the position of the first occurrence of a <a href="#">needle</a> in a <a href="#">haystack</a> |
| <a href="#">strrpos</a>      | <a href="#">string</a> haystack, <a href="#">string</a> needle                                       | <a href="#">int</a> position or -1      | Return the position of the last occurrence of a <a href="#">needle</a> in a <a href="#">haystack</a>  |
| <a href="#">strtolower</a>   | <a href="#">string</a> input   | <a href="#">string</a> lowercase        | Return the lowercase version of a <a href="#">string</a>  |
| <a href="#">strtoupper</a>   | <a href="#">string</a> input   | <a href="#">string</a> UPPERCASE        | Return the UPPERCASE version of a <a href="#">string</a>  |
| <a href="#">strval</a>       | <a href="#">mixed</a> value  | <a href="#">string</a>                  | Return the <a href="#">string</a> equivalent of a <a href="#">number</a>                              |
| <a href="#">substr</a>       | <a href="#">string</a> input, <a href="#">int</a> start, <a href="#">int</a> length                  | <a href="#">string</a> substring        | Return part of a <a href="#">string</a>   |
| <a href="#">tar_finish</a>   | <a href="#">int</a> handle   | <a href="#">int</a> 1=OK                | Add the ending header to a TAR file   |
| <a href="#">tar_put</a>      | <a href="#">int</a> handle, <a href="#">string</a> src_pathname, <a href="#">string</a> tar_pathname | <a href="#">int</a> 1=OK                | Add a file to an open file in TAR format  |
| <a href="#">time</a>         |  | <a href="#">int</a> seconds             | Return the current system timestamp   |
| <a href="#">timefromfat</a>  | <a href="#">int</a> filetype   | <a href="#">int</a> seconds             | Convert a FAT <a href="#">filetime</a> to a Linux Timestamp   |
| <a href="#">trim</a>         | <a href="#">string</a> input   | <a href="#">string</a> trimmed          | Return the trimmed <a href="#">string</a>   |
| <a href="#">ucfirst</a>      | <a href="#">string</a> input   | <a href="#">string</a> Lowercase        | Convert a <a href="#">string</a> to Lowercase except for the first character                          |
| <a href="#">unlink</a>       | <a href="#">string</a> filename  | <a href="#">int</a> 0 or error code     | Remove a file (delete it)   |
| <a href="#">untar</a>        | <a href="#">string</a> filename, <a href="#">int</a> verbosity                                       | <a href="#">int</a> 1=OK                | Expand a TAR file into the current folder, optionally verbose   |
| <a href="#">unpack</a>       | <a href="#">string</a> format, <a href="#">string</a> value  | <a href="#">number</a>                  | Unpack a packed string value and return the original data   |
| <a href="#">uptime</a>       |  | <a href="#">int</a> ms                  | Return the uptime in milliseconds   |
| <a href="#">urldecode</a>    | <a href="#">string</a> str   | <a href="#">string</a> string to encode | URL-Decode a string   |
| <a href="#">urlencode</a>    | <a href="#">string</a> str   | <a href="#">string</a> encoded string   | URL-Encode a string   |
| <a href="#">wifi_disable</a> |  |   | Disable Wifi module   |
| <a href="#">wifi_enable</a>  |  |   | Enable Wifi module  |

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