

# 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.

Click on the function name for further details:

FUNCTION NAME	PARAMETER(S)	RETURN	DESCRIPTION
<a href="#">adc_read</a>	<a href="#">int channel</a>	<a href="#">int</a> ADC value	Read an onboard ADC <a href="#">channel</a>
<a href="#">array</a>	<a href="#">mixed 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 index</a>	<a href="#">string</a> key	Return the key for an <a href="#">array 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="#">base64_decode</a>	<a href="#">string base64</a>	<a href="#">string</a> decoded or <a href="#">int 0</a>	Decode a base64-encoded <a href="#">string</a>
<a href="#">base64_encode</a>	<a href="#">string</a> to encode	<a href="#">string</a> base64 or <a href="#">int 0</a>	Return the base64-encoded version of a <a href="#">string</a>
<a href="#">call_user_func</a>	<a href="#">string function_name</a> , <a href="#">mixed 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 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 directory</a>	<a href="#">int 0</a> =OK	Change the current directory
<a href="#">chr</a>	<a href="#">int code</a>	<a href="#">string</a> 1 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 radian_angle</a>	<a href="#">float</a> cosine	Return cosine of a <a href="#">radian_angle</a>
<a href="#">debug</a>	<a href="#">string output</a>		Print to debug output
<a href="#">debugout</a>	<a href="#">int 0 or 1</a>		Enable or disable debug messages
<a href="#">die</a>			Kill the script
<a href="#">disk_free_space</a>		<a href="#">int</a> KiloBytes	Return free space on microSD card
<a href="#">disk_total_space</a>		<a href="#">int</a> KiloBytes	Return total space on microSD card
<a href="#">error_reporting</a>	<a href="#">int verbosity</a>		Set the debug output level
<a href="#">exec</a>	<a href="#">string script</a> , <a href="#">int delay</a>		Run a <a href="#">script</a> with an optional <a href="#">delay</a>
<a href="#">exec_action</a>	<a href="#">mixed action</a>	<a href="#">int 1</a> =OK	Triggers a manually executable <a href="#">action</a> by id or name
<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 1</a> or 0	Test if no more data is available in a file, stream or socket

FUNCTION NAME	PARAMETER(S)	RETURN	DESCRIPTION
fgets	int handle, int size	string or int -1	Return a single line from a file, stream or socket, with optional size limit
file_exists	string filename	int 1 or 0	Check if a file exists
fsize	string filename or int handle	int bytes	Return the size of a file, or the number of unread bytes in a stream or socket
findfirst	string pattern, int attributes	array first file found	Start searching the current folder for files matching a pattern and attributes
findnext		array next file found	Return next matching file information (after a findfirst)
firmwareupdate			Initiate a firmware update sequence and reboot the device
floatval	mixed value	float value or int 0/1	Return the float value of a number or string
flush	socket socket to flush		Flush current output or socket to the browser
fopen	string filename, string mode	int handle or 0	Open a file for reading or writing
fread	int handle, int bytes	string or int 0	Read bytes from a file, stream or socket
freemem		int bytes	Return free memory space
freestack		int bytes	Return free stack space
fseek	int handle, int offset, int whence		Position the file pointer in an open file
fseropen	int baud, int blocking, int invert, int parity	int handle or 0	Open the serial port at the specified baud rate with optional parameters
fsockopen	string host, int port, int timeout	int handle or 0	Open an internet socket connection with optional timeout
ftell	int handle	int position	Return the current position of a file read/write pointer
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
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
header	string header_data		Add to HTTP header
htmlspecialchars	string data	string converted	Convert special characters for display in HTML

FUNCTION NAME	PARAMETER(S)	RETURN	DESCRIPTION
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
ini_put_array	string filename, array data, string section		Write a group of parameters to an INI file from an array
ini_set	string filename, string section, string key, mixed value	int 1=OK	Set a value in an INI file
init_watchdog	int interval		Initialize the software watchdog timer
inttoieee754	int representation	float value	Convert an IEEE-754 encoded integer representation (32 bit) to a float
intval	mixed value	int value	Return the integer value of a number or string
is_array	mixed variable	int 1 or 0	Check if a variable is an array
is_float	mixed variable	int 1 or 0	Check if a variable is a float
is_int	mixed variable	int 1 or 0	Check if a variable is an integer
is_numeric	mixed value	int 1 or 0	Check if a value is numeric (int, float or numeric string)
is_string	mixed variable	int 1 or 0	Check if a variable is a string
isset	mixed variable	int 1 or 0	Check if a variable exists
json_encode	array, int method	string	JSON encode an array into a string, with optional method
ln	number number	float log <sub>e</sub>	Return the natural logarithm of a number
log	string output, string file		Print to the System Log (or optional file)
log10	number number	float log <sub>10</sub>	Return the base 10 logarithm of a number
mail	string recipient, string subject, string body	int 0 or SMTP error code	Send an email [deprecated]
max_execution_time	int seconds		Set the maximum execution time for the current script
mb_add_dev	int id, int type, string name, int poll_interval, int status	int 0=OK	Add a device to the list of polled devices
mb_delete_device	int id	int 1=OK	Delete a device from the list of active devices

FUNCTION NAME	PARAMETER(S)	RETURN	DESCRIPTION
<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</a> 1=OK	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>
<a href="#">mb_num_devices</a>		<a href="#">int</a>	Return number of devices on the modbus
<a href="#">mb_queue_command</a>	<a href="#">mixed values ...</a>	<a href="#">array</a> of numbers	Queue a sequence of characters to the rs485 bus and get but ignore the reply
<a href="#">mb_scan_complete</a>		<a href="#">int</a> 1=complete, 0=ongoing	Check to see if a modbus scan has completed
<a href="#">mb_scan_percent</a>		<a href="#">number</a> percent completed	Return scan percentage completed
<a href="#">mb_send_command</a>	<a href="#">mixed values ...</a>	<a href="#">array</a> of numbers	Send a sequence of characters to the rs485 bus and get a reply
<a href="#">mb_set_dev_var</a>	<a href="#">string name</a> or <a href="#">int id</a> , <a href="#">string variable</a> , <a href="#">mixed value</a>	<a href="#">int</a> 1=OK	Set a <a href="#">variable</a> on a modbus device
<a href="#">mb_set_val_by_role</a>	<a href="#">int role</a> , <a href="#">number value</a>	<a href="#">int</a> 1=OK	Set a <a href="#">role value</a> on a modbus device
<a href="#">mb_start_scan</a>	<a href="#">int start</a> , <a href="#">int end</a>		Initiate an automatic scan of the modbus
<a href="#">md5</a>	<a href="#">string input</a>	<a href="#">string</a> 32 characters	Calculate the MD5 hash of a <a href="#">string</a>
<a href="#">md5_file</a>	<a href="#">string filename</a>	<a href="#">string</a> 32 characters	Calculate the MD5 hash of a file
<a href="#">mem_dump</a>			Write the current memory map to /dump.txt
<a href="#">mem_usage</a>			Write memory usage to standard output
<a href="#">microtime</a>		<a href="#">int</a> ms	Return the number of milliseconds since boot
<a href="#">mkdir</a>	<a href="#">string pathname</a>	<a href="#">int</a> 0 or error code	Make a directory
<a href="#">mktime</a>	<a href="#">int hour</a> , <a href="#">int minute</a> , <a href="#">int second</a> , <a href="#">int month</a> , <a href="#">int day</a> , <a href="#">int year</a>	<a href="#">int</a> seconds	Return the Linux Timestamp for a given date and time
<a href="#">mqtt_publish</a>	<a href="#">string channel</a> , <a href="#">string content</a>	<a href="#">int</a> 1 for success or 0 for error	Publish a message to an MQTT server

FUNCTION NAME	PARAMETER(S)	RETURN	DESCRIPTION
mqtt_subscribe	string channel, string callback	int 1 for success or 0 for error	Subscribe to a channel on an MQTT server
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
nvrn_defrag			Defragment NVRAM to optimise it
nvrn_dump			Dump the contents of NVRAM to standard output
nvrn_free		int bytes	Return the number of bytes available in NVRAM
nvrn_get	string key	mixed value	Get a value from NVRAM
nvrn_restore	string filename		Restore the contents of NVRAM from a file
nvrn_set	string key, string value	int 1=OK	Set a key and value in NVRAM
nvrn_unset	string key	int 1=OK	Clear a key from NVRAM
ord	string character	int ASCII code	Return the ASCII code for a character
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
phpinfo		string	Return information about the system
pin_configure	int pin_index, int pin_type, int counter_type		Configure an IO pin as a digital input, output, or analog input
pin_get	int pin_index, int pin_type	int value	Return the value of an IO pin
pin_set	int pin_index, int value		Set a digital output to value 1 or 0
ping	string host	array	Send an ICMP ping and place the result in an array
power	number base, number exp	number base <sup>exp</sup>	Return base raised to the power of exp
print	string data		Print data to the current output stream such as a web page or terminal

FUNCTION NAME	PARAMETER(S)	RETURN	DESCRIPTION
<a href="#">print_r</a>	<a href="#">array</a>		Dump the contents of an <a href="#">array</a> to the current output
<a href="#">printf</a>	<a href="#">string format</a> , <a href="#">mixed values</a> ...		Print a formatted <a href="#">string</a> to standard output
<a href="#">process_kill</a>	<a href="#">int pid</a>		Send a kill request to a process
<a href="#">process_list</a>		<a href="#">array</a>	Return an <a href="#">array</a> of the currently running scripts
<a href="#">rand</a>	<a href="#">int min</a> , <a href="#">int max</a>	<a href="#">int</a>	Return a random <a href="#">integer</a> between <a href="#">min</a> and <a href="#">max</a>
<a href="#">reboot</a>			Reboot the processor
<a href="#">rename</a>	<a href="#">string source</a> , <a href="#">string destination</a>	<a href="#">int</a> 0 or error code	Rename or move a file or directory from <a href="#">source</a> to <a href="#">destination</a>
<a href="#">reset</a>			Reset the processor
<a href="#">rmdir</a>	<a href="#">string pathname</a> , <a href="#">int delete_contents</a>	<a href="#">int</a> 0=OK	Remove a directory, with optional deletion of contents
<a href="#">send_sms</a>	<a href="#">string phone_number</a> , <a href="#">string message</a>	<a href="#">int</a> result	sends an sms through a cellular dongle
<a href="#">session_destroy</a>			Clear the current session's data
<a href="#">session_is_new</a>		<a href="#">int</a>	Check if a session was just initiated
<a href="#">session_start</a>			Initiate a new session and send the cookie data for it
<a href="#">set_search_path</a>	<a href="#">string pathname</a>		Set the search path for the telnet client
<a href="#">setethpower</a>	<a href="#">int state</a>		Enable or disable the ethernet controller
<a href="#">setpriority</a>	<a href="#">int priority</a>		Set the <a href="#">priority</a> of the current script
<a href="#">settime</a>	<a href="#">int timestamp</a> , <a href="#">int calibration</a>		Set the system time from a Linux <a href="#">Timestamp</a> , with optional <a href="#">calibration</a>
<a href="#">setusbpower</a>	<a href="#">int state</a>		Enable or disable USB power
<a href="#">sha1</a>	<a href="#">string input</a>	<a href="#">string</a> 40 characters	Calculate the SHA1 hash of a <a href="#">string</a>
<a href="#">sin</a>	<a href="#">number radian_angle</a>	<a href="#">float</a> sine	Return sine of a <a href="#">radian_angle</a>
<a href="#">sizeof</a>	<a href="#">array</a>	<a href="#">int</a> number of elements	Return the number of elements in an <a href="#">array</a>
<a href="#">sleep</a>	<a href="#">int ms</a>		Sleep for specified milliseconds
<a href="#">spi_clearcs</a>			Clear the CS output of the <a href="#">SPI</a> bus
<a href="#">spi_read</a>		<a href="#">int</a> byte	Read a byte from the <a href="#">SPI</a> bus
<a href="#">spi_setcs</a>			Set the CS output of the <a href="#">SPI</a> bus
<a href="#">spi_write</a>	<a href="#">int byte</a>		Write a <a href="#">byte</a> to the <a href="#">SPI</a> bus
<a href="#">sprintf</a>	<a href="#">string format</a> , <a href="#">mixed values</a> ...	<a href="#">string</a> formatted	Return a formatted <a href="#">string</a>
<a href="#">sqr</a>	<a href="#">number number</a>	<a href="#">number</a> squared	Return the square of a <a href="#">number</a>

FUNCTION NAME	PARAMETER(S)	RETURN	DESCRIPTION
<a href="#">sqrt</a>	<a href="#">number</a> <a href="#">number</a>	<a href="#">number</a> square root	Return the square root of a <a href="#">number</a>
<a href="#">stats</a>		<a href="#">array</a>	Return system statistics
<a href="#">strftime</a>	<a href="#">string</a> <a href="#">format</a> , <a href="#">int</a> <a href="#">timestamp</a>	<a href="#">string</a> formatted	Format a Linux <a href="#">Timestamp</a> using a <a href="#">format string</a>
<a href="#">strlen</a>	<a href="#">string</a> <a href="#">input</a>	<a href="#">int</a> length	Return the length of a <a href="#">string</a>
<a href="#">strpos</a>	<a href="#">string</a> <a href="#">haystack</a> , <a href="#">string</a> <a href="#">needle</a>	<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> <a href="#">haystack</a> , <a href="#">string</a> <a href="#">needle</a>	<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> <a href="#">input</a>	<a href="#">string</a> lowercase	Return the lowercase version of a <a href="#">string</a>
<a href="#">strtoupper</a>	<a href="#">string</a> <a href="#">input</a>	<a href="#">string</a> UPPERCASE	Return the UPPERCASE version of a <a href="#">string</a>
<a href="#">strval</a>	<a href="#">mixed</a> <a href="#">value</a>	<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> <a href="#">input</a> , <a href="#">int</a> <a href="#">start</a> , <a href="#">int</a> <a href="#">length</a>	<a href="#">string</a> substring	Return part of a <a href="#">string</a>
<a href="#">tar_finish</a>	<a href="#">int</a> <a href="#">handle</a>	<a href="#">int</a> 1=OK	Add the ending header to a TAR file
<a href="#">tar_put</a>	<a href="#">int</a> <a href="#">handle</a> , <a href="#">string</a> <a href="#">src_pathname</a> , <a href="#">string</a> <a href="#">tar_pathname</a>	<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> <a href="#">filetime</a>	<a href="#">int</a> seconds	Convert a FAT <a href="#">filetime</a> to a Linux Timestamp
<a href="#">ucfirst</a>	<a href="#">string</a> <a href="#">input</a>	<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> <a href="#">filename</a>	<a href="#">int</a> 0 or error code	Remove a file (delete it)
<a href="#">untar</a>	<a href="#">string</a> <a href="#">filename</a> , <a href="#">int</a> <a href="#">verbosity</a>	<a href="#">int</a> 1=OK	Expand a TAR file into the current folder, optionally verbose
<a href="#">uptime</a>		<a href="#">int</a> ms	Return the uptime in milliseconds

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Last update: **2021/09/13 05:56**

