

InHand OpenDevice Platform API Reference

RouterInfo Device Information Module

RouterInfo module provides API which can obtain device status, including cellular module information, GPS information, router firmware version information, etc. See the following table for specific functions.

Function Name	Function Description	Function Return Value
get_firmware_info()	Get router firmware version information	"version_info"
Get_cellular_info()	Get cellular module information	"cellular_info"
Get_gps_info()	Get GPS information	"gps_info"
Get_io_info()	Get IO state information	"io_info"
Get_interface_info()	Get information of all interfaces	"nterface_info"
Get_mac_addr()	Get router MAC address	"mac_info"
Get_conncet_device()	Get information of the device connected with router	"device_info"
Get_routing_info()	Get routing information of router	"routing_info"
Get_dhcp_device()	Get information of the device managed by router DHCP	"dhcp_info"

Function Return Value Reference

JSON format is used for function return value, {"return value name":[key:value,...]}

version_info

Example of return value

```

{"version_info":{
  "lang": "English",
  "hostname": "Router",
  "timezone": "UTC-8",
  "model_name": "915P",
  "oem_name": "InHand",
  "bootloader": "2011.09.r7903",
  "serial_number": "RP9151510285927 ",
  "product_number": "PS08-W-S-GPS",

```

```
"description": "www.InHand.com.cn",
"encrypt_passwd": "no"
}}
```

Key	Type	Description
"lang"	Character string	Language currently used by Router Web and CI
"hostname"	Character string	Router hostname
"timezone"	Character string	Router timezone
"model_name"	Character string	Router model
"oem_name"	Character string	Router OEM approved information
"bootloader"	Character string	Router bootloader version number
"serial_number"	Character string	Product serial number of router
"product_number"	Character string	Product model of router
"description"	Character string	Equipment description
"encrypt_passwd"	Character string	Whether encrypted storage is needed by secret key in router configuration files

cellular_info

Example of return value

```
{"cellular-info":{
"imei": "",
"imsi": "",
"phonenum":
"", "siglevel": "0",
"dbm": 113,
"regstatus":
"0", "network_type": "",
"submode_name": "",
"current_sim": "SIM 1",
"current_operator": "",
"lac": "",
"cellid": "",
"nai_no": "-",
"nai_pwd": "-"
}}
```

Key	Type	Description
"imei"	Character string	IME code of cellular module
"imsi"	Character string	IMSI code of cellular module
"phonenum"	Character string	Phone number of current dialling SIM card
"siglevel"	Character string	Signal value of cellular module
"dbm"	Character string	Signal strength of cellular module
"regstatus"	Character string	Set forward registration status

"network_type"	Character string	Wireless network type, e.g. 2G/3G/4G
"submode_name"	Character string	Name of wireless network type, e.g. GPRS/TDD-LTE, etc.
"current_sim"	Character string	Current dialling SIM card
"current_operator"	Character string	Name of network operator
"lac"	Character string	Zone bit code of wireless network site
"nai_no"	Character string	Wireless network access identification
"nai_pwd"	Character string	Wireless network access password

gps_info

Example of return value

```

{"gps_info":{
  "gps_time": "2016-04-28 18:58:28.000",
  "latitude": "40&deg00.6371 N",
  "longitude": ""116&deg28.1155 E",
  "speed": "0.00 Knots (1knot = 1.85km/h)"
}}
```

Key	Type	Description
"gps_time"	Character string	GPS time, current UTC time
"latitude"	Character string	Latitude, N: north latitude, S: south latitude
"longitude"	Character string	Longitude, E: east longitude, W: west longitude
"speed"	Character string	Current speed

io_info

Example of return value

```

{"io_info":{
  "input":0,
  "output": "on"
}}
```

Key	Type	Description
"input"	Integral type	the state of input
"output"	Character string	the state of output

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