UIMip







KNX IP Interface

Technical & Application Description

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1 **Product Description**

The KNX IP Interface UIMip provides a bi-directional Ethernet/IP data connection to the KNX TP bus system. A PC having a LAN adapter, an Ethernet network or KNX IP devices can be connected to KNX TP having a galvanic isolation in between. UIMip establishes access to all bus devices featuring commissioning, addressing, setting parameters, visualization, protocolling, and diagnostic operation. For detailed diagnosis all operational modes/states are shown by a duo-LED display. UIMip is completely supplied by KNX TP. So, no additional external power supply is necessary.

With the ETS (or compatible commissioning tool) UIMip works as the KNX programming interface having no KNX communication objects for itself. Connecting a personal computer to the KNX TP bus can ideally be done via Ethernet/Internet. The protocols used for communication between interface and host are the flexible "cEMI" protocol and the KNXnet/IP protocol. UIMip supports extended frames and long messages with up to 240 byte APDU length. Easy software handling is ensured by the Falcon driver.

For IP Tunneling, up to four tunneling addresses can be used. With the comfortable web front-end of UIMip, it possible to remotely read out actual device info, set addresses for tunneling, activate Programming Mode, and update the firmware via IP. It is easy to identify UIMip in a network by remotely switching on its Programming LED.

In this document, physically addressed telegrams are named Physical Telegrams.

In this document, group oriented telegrams are named Group Telegrams.



Product Description

1.1 Front Panel

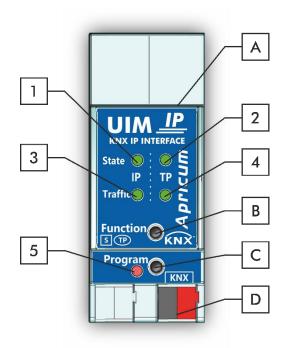


Figure 1: Front View

LEDs		Buttons / Connectors	
1	IP State	Α	Ethernet Connector
2	Bus State KNX TP	В	Function Button
3	Telegram Traffic IP	С	Programming Button
4	Telegram Traffic KNX TP	D	KNX TP Connector
5	Programming LED		

Table 1: Front Panel Elements



1.2 LED Indication

Following table gives a general description of the LED display indication intended for normal operation.

Table 2: LEDs Colours

Number	LED	Colour	Explanation / Range
	IP State	green	IP line OK
1		< off >	No IP connection
2	Due Ctete KNY TD	green	KNX TP line OK
2	Bus State KNX TP	< off >	KNX TP line not connected
		blinking green	Telegram traffic extent indicated by blinking
3	Telegram Traffic IP	< off >	No telegram traffic
		blinking green	Telegram traffic extent indicated by blinking
4	Telegram Traffic KNX TP	blinking red	Transmission error
		< off >	No telegram traffic
	Programming LED	red	Programming Mode / Boot Mode active
5		blinking red	No IP connection
		< off >	Programming Mode / Boot Mode not active



Product Description

1.3 Commissioning

Please note for commissioning with default settings:

• Individual address is 15.15.255

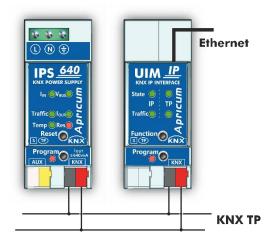


Figure 2: Connection Scheme

Please read carefully before first use:

- · After connection to the KNX bus system, the device works with its default settings
- Warning: Do not connect to 230 V. The device is supplied by the KNX bus and does not require any additional external power supply
- The device may only be installed and put into operation by a qualified electrician or authorized personnel
- For planning and construction of electric installations the appropriate specifications, guidelines and regulations in force of the respective country have to be complied
- For mounting use an appropriate equipment according to IEC60715
- Installation on a 35 mm DIN rail (TH35)
- Connect the KNX bus line as for common KNX bus connections with a KNX bus cable, to be stripped and plugged into a KNX TP connector
- Do not damage electrical insulations during connecting
- Installation only in dry locations
- · Accessibility of the device for operation and visual inspection must be provided
- For changing the configuration use the ETS
- The housing must not be opened
- Protect the device from moisture, dirt and damage
- The device needs no maintenance
- If necessary, the device can be cleaned with a dry cloth
- In the case of damage (at storage, transport) no repairs may be carried out by unauthorized personnel

UIMip

1.4 Feature Summary

- UIMip supports extended frames and long telegrams up to 240 bytes APDU length. (With all MEC couplers and UIM interfaces long messages e.g. for energy metering applications and visualization purposes can be processed.)
- UIMip works without external power supply.
- For IP Tunneling, four different tunneling connections, with a separate address for each, can be realized in parallel. Quick assignment can be done by the web front-end.
- UPnP is available to discover the device within the IP network. This can only be realized by a proper network installation in terms of topology. With use of KNXnet/IP ETS is able to recognize the communication interface device.
- Updating the firmware can easily be accomplished by a web browser. The available web front-end provides informative settings and enables to remotely switch the device into Programming Mode without use of the Programming Button.
- UIMip's ETS database entries are available for ETS4 and later.
- UIMip supports KNXnet/IP, ARP, ICMP, IGMP, HTTP, UPnP discovery, UDP/IP, TCP/IP, DHCP und AutoIP.



KNXnet/IP

2 KNXnet/IP

UIMip is a KNX IP interface. KNX IP interfaces are highly similar to USB interfaces. The only difference is that they use the IP communication medium. However, KNX end devices can be integrated directly via IP. This makes the Ethernet a real KNX medium.

As documented in the KNXnet/IP protocol specifications, KNX telegrams can be transmitted encapsulated in IP packets. Ethernet networks as well as Internet can be used to route or tunnel KNX telegrams. In this way, IP interfaces and IP routers are an alternative to USB data interfaces and TP line/area/backbone couplers, respectively. In the latter case, a TP backbone can be completely replaced by a fast Ethernet based line then called IP backbone.

2.1 IP Tunneling

The presence of the Internet Protocol (IP) has led to the definition of the KNXnet/IP protocol. KNXnet/IP offers the possibility for point-to-point connections for the ETS (KNXnet/IP Tunneling) and/or between supervisory system and KNX installation. The KNXnet/IP device management enables KNXnet/IP device configuring via the KNX network in order to reduce the time required for complete network configuration.

2.2 IP Routing

IP Routing is the way of interconnecting KNX lines and areas by IP network(s) via KNXnet/IP. In IP networks, the KNXnet/IP Routing defines the way of KNXnet/IP router communication.

2.3 IP Bootloader / Boot Mode

The IP bootloader function is used to update the firmware and completely rewrite the flash memory content. This is not just a simple application download. Both communication stack and application software are downloaded.

The firmware update procedure via IP is executed by a web front-end, which is independent from ETS, and makes use of special messages to speed up the process. To be protected, their contents are encrypted.

Entering Boot Mode is equivalent to activating the IP bootloader function.

3 Operational Description

In network installations UIMip is used as KNX IP interface. After connecting to KNX TP, UIMip operates with its default settings. Setting the correct individual address is necessary to include UIMip in the present KNX bus system.

3.1 IP Interface Application

IP Interface is designed for use in 10/100 BaseT networks compliant to IEEE802.3. The AutoSensing function sets the baud rate (10 Mbit or 100 Mbit) automatically. IP address can be received from a DHCP server. For this, the automatic assignment setting of the IP address can be set by ETS (use DHCP). If set so and no DHCP server is found, UIMip starts an AutoIP procedure and autonomously assigns the IP address. The IP address that UIMip receives during its start-up (via DHCP or AutoIP) is retained until next start-up (e.g. due to power off or reprogramming). If UIMip is supposed to have a fixed IP address (as well as subnet mask and standard gateway) it can be set by ETS.

3.2 IP Network

UIMip sends telegrams from/to the TP network to/from the IP network in accordance with the KNXnet/IP protocol specification. Important notes:

- All KNX IP devices that are intended to communicate with each other via IP must have the same IP multicast address.
- If the IP address is changed from the IP side it may happen that ETS does no longer recognize the device and connection cannot be maintained (tunneling uses IP addresses). So, it is recommended to change IP addresses and restart only from TP side.
- If problems occur for IP address assignment, please ask your network administrator.
- According to the topology, the Tunneling addresses always have to be assigned in the range of subline addresses. For more information about additional individual addresses for tunneling please refer to IP Tunneling Address Assignment.
- To program devices of a line different to which the device used for (re)programming is connected, the use of a correct topology is mandatory!

UIMip

Programming 3.3

3.3.1 **Programming Button**

To download the desired individual address or an ETS setting the Programming Mode must be activated. Successive pressing the Programming Button will turn on and off the Programming Mode. LED 5 lighting in red colour indicates Programming Mode is active. When Programming Mode is activated, the ETS is able to download the individual address.

A blinking red Programming LED indicates the Ethernet cable is not properly connected or no IP network connection is available.

Also when Boot Mode is active, successive pressing the Programming Button will turn on and off Programming Mode and Programming LED.

3.3.2 Individual Address Assignment

To configure the device an interface connection (IP, USB) to the KNX bus system is required. The device is supplied with the individual address 15.15.255. The KNX product database entry (available for ETS4 and higher) can be downloaded from the Apricum website and from the KNX Online Catalog.

The individual address can be assigned to the device by setting the desired address in the properties window of the ETS. After starting the ETS download and then pressing the Programming Button the device restarts itself.

Prope	rties	>		
<u>i</u>		1		
Settings	Comm	Inform		
Name				
KNX IP Inte	rface			
Individual A	Address			
1.1	1 ‡	Park		
· ·				
Description	1			
Last Modifi	ed 26	5.04.2018		
Last Modifi Last Downle	ed 20 oaded -	5.04.2018		
Last Modifi	ed 20 oaded -	5.04.2018		
Last Modifi Last Downle	ed 20 oaded -	5.04.2018		

Figure 3: ETS Properties Window

UIMip

3.4 Function Button

The Function Button activates UIMip's special function. Factory Reset can be activated. Device settings of UIMip can be reset to manufacturer default values with the Factory Reset function. During the firmware update procedure, the Function Button has to be pressed for Boot Mode activation.

3.4.1 Factory Reset

A long press (ca. 15 sec) of the Function Button soon followed by a short press (ca. 3 sec) executes the Factory Reset. After the first press, the LED display lights like described in Table 3. After the second press, all parameters will be set to factory default (incl. individual address). Subsequently, LEDs indicate normal operation again.

3.4.2 Boot Mode Activation

To start the firmware update process, Boot Mode must be activated. During this process, a press on the Function Button is necessary. After a click on the "request update" button, UIMip enters Boot Mode (see chapter 5.4).

Device is currently running in boot mode.					
Status: update authorized					
	DHCP:	On			
	IP Address:	192.168.1.86			
BOOT MODE	Subnet Mask:	255.255.255.0			
	Gateway:	192.168.1.201			
	DNS:	192.168.1.2			
Device Info	Http Port:	8080			
	MAC Address:	D0-76-50-00-23-B2			
Update	KNX Serial:	0072-712A4000			
	Hostname:	KNX-IPIF-0023B2			
	Description:	KNX TP IP			
	UDN:	uuid:63081f31-6308-1f55-4a51-d076500023b2			
	Bootloader SW ver	sion: 2.3			

Figure 4: Boot Mode is active



UIMip

3.4.3 LED Status Display

Table 3: LED Status Display for Factory Reset after first Button Press

Number	LED	Colour	Comment	
1	State IP	orange	lights red if not connected	
2	Bus State KNX TP	orange		

Table 4: LED Status Display for Boot Mode

Number	LED	Colour	Comment	
1	State IP	green		
2	Bus State KNX TP	blinking green		
3	Telegram Traffic IP	blinking green	not the same tempo as LED2	
5	Programming LED	red		

ETS Database Parameters

4 ETS Database Parameters

4.1 General

The host name is the name with that the device appears within the Windows network.

1.1.1 KNX IP Interface > General	1.1.1 KNX IP Interface > General		
General	Host name	KNX IP Interface	
IP configuration			

Figure 5: General Tab Parameters

Table 5: General Tab Parameter Settings

ETS Parameter	Setting [Factory Default]	Comment
Host name	<30 Characters allowed> [KNX IP Interface]	Field to enter the device name providing an easy search of the device by ETS, by Windows Network and by KNXnet/IP visualisation systems.



4.2 IP Configuration

1.1.1 KNX IP Interface > IP configuration			
General	HTTP Port	80 0 8080	
IP configuration	DHCP	🔿 do not use 🔘 use	

Figure 6: IP Configuration Tab Parameters, DHCP on

ETS Parameter	Setting [Factory Default]	Comment
HTTP Port	80 8080 [8080]	Select one of the two official system ports.
DHCP	do not use use [use]	If DHCP is used, no further IP parameters have to be set.

1.1.1 KNX IP Interface > IP configuration		
General	HTTP Port	80 0 8080
IP configuration	DHCP	o do not use use
	IP adress	0.0.0.0
	Subnet mask	255.255.255.0
	Default gateway	0.0.0.0
	DNS server	0.0.0.0

Figure 7: IP Configuration Tab Parameters, DHCP off

Table 7: IP Configuration Tab Parameter Settings, DHCP off

ETS Parameter	Setting [Factory Default]	Comment
IP address	0-255.0-255.0-255.0-255 [0.0.0.0]	IP Byte 1 to 4: manual input.
Subnet mask	0-255.0-255.0-255.0-255 [255.255.255.0]	SM Byte 1 to 4: manual input.
Default gateway	0-255.0-255.0-255.0-255 [0.0.0.0]	DG Byte 1 to 4: manual input.
DNS server	0-255.0-255.0-255.0-255 [0.0.0.0]	DNS Byte 1 to 4: manual input

5 Web Front-end

The web front-end can be used to read out UIMip's actual device parameters (HTTP port, IP address, MAC address, ...), to update its firmware and to adjust the (additional) tunneling addresses. To identify a particular UIMip of a KNX network the Programming LED/Programming Mode can be remotely switched on and off without pressing the on-device Programming Button.

+

To switch back from Boot Mode to normal operation it is necessary to run the firmware update procedure and then abort, or wait for the 10 min timeout.

5.1 Accessing the UIMip Web Front-end

There are three ways to access the UIMip. It can be accessed like a Microsoft Windows UPnP network device (Windows7 or later) and by a web browser. For access by a web browser either the IP address or the MAC address, together with the HTTP port, have to be known. How to use IP address and MAC address with the browser's URL bar is described in the following.

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For access via web browser the HTTP port that is set by ETS (or the factory default parameter value) has to be used.

+

Factory default HTTP port is 8080.

5.1.1 via Windows Network UPnP

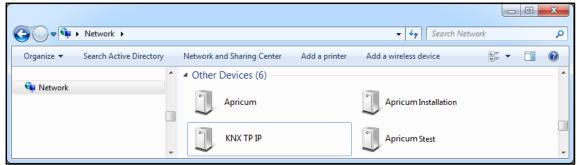


Figure 8: UIMip as UPnP network device ("KNX TP IP")

When the UPnP network function is enabled, UIMip appears in the Windows Network. A click on the UIMip network device opens the web front-end with the standard web browser. If UIMip is not visible as an UPnP network device a manual restart is recommended. After that, the device becomes visible in the list of network devices.



5.1.2 via IP Address

When IP address and HTTP port (80 or 8080) are known, this information is sufficient to access the UIMip web front-end by a web browser. The actual IP address is shown in the ETS.

ETS Edit Workplace Comm	nissioning Diagnostics Extras Window	
Overview Bus	Catalogs Settings	KNX
- Connections Interfaces	Current Interface	🕹 IP Tunneling Name
Options + Monitor	Configured Interfaces	TAPKO KNX TP IP Host Individual Address 15.15.0
+ Diagnostics	Discovered Interfaces Realtek PCIe GBE Family Controller 224.0.23.12 9C:5C:8E:CEEC	IP Address
	4 15.15.0 TAPKO KNX TP IP 169.254.150.33:3671 D0:76:50:00:2	
	🍖 Tapko USB Interface (TAPKO Technologies)	3671
		MAC Address D0:76:50:00:21:95

Figure 9: Identifying UIMip's IP address with ETS

According to UIMip's pre-set IP configuration (HTTP port, IP address and DHCP, respectively) in the URL bar has to be entered (without brackets):

http://[IP address]:[HTTP port]/

- Example1: DHCP is not used. With the latest ETS download the IP address was set to 192.168.1.32 and HTTP port was set to 80. In the browser's URL bar has to be entered "http://192.168.1.32:80/".
- Example2: With the latest ETS download HTTP port was set to 8080 and DHCP was activated. The DHCP server assigned a free IP address to UIMip and ETS shows this IP address to be 192.168.1.201. In the browser's URL bar has to be entered "http://192.168.1.201:8080/".

5.1.3 via MAC Address

When NetBIOS is installed (by default on Windows) the MAC address that is printed on a label on the side of the UIMip housing can be used. Due to name resolution is mandatory to establish communication by Host name, activation of NetBIOS is necessary.

Use the MAC address in the form of AA-BB-CC-XX-YY-ZZ and the pre-set HTTP port to be entered in the browser's URL bar as described here (without brackets):

http://knx-ipif-[XXYYZZ]:[HTTP port]/

Example: On the housing side UIMip is labelled with MAC address D0-76-50-11-22-33 and the pre-set HTTP port is 8080. Then, in the web browser's URL bar has to be entered "http://knx-ipif-112233:8080/".



5.2 Device Info

After accessing the web front-end the Device Info tab is shown. All general information about the current device settings is visible.

Ар	ricun	KNX-IP Interface
	Device Informa	
Device Info	Status: DHCP:	normal operation true
KNX	IP Address: Subnet Mask:	192.168.1.32 255.255.255.0
Update	Gateway: DNS: Http Port:	192.168.1.201 192.168.1.2 8080
	MAC Address:	D0-76-50-00-0B-83
	Hostname:	KNX-IPIF-000B83
	Description:	UIM KNX IP Interface
	UDN:	uuid:5f42333a-6308-1f55-4a51-d07650000b83
	Application SW version:	2.0.3
	Bootloader SW version:	2.2

Figure 10: Device Info Tab

UIMip

5.3 KNX

Here, all KNX specific addresses are shown. Setting changes can easily be checked. With a simple click on "On" or "Off" Programming Mode can be switched on/off. This function is equivalent to a Programming Button press. Together with the Device Info tab it is easy to distinguish the regarded device (with a certain IP address or MAC address or serial number) from other similar devices in the same IP network.

Four tunneling addresses can be set. ETS sets the first tunneling address. With a click on "Set" the remaining ones are set. Moreover, routing multicast address and serial number of the device are shown.

Device Info	Program Mode:	Off
ких	Change Program Mode: Individual Address	ON OFF 15.15. 0
Update	Tunneling Addresses	15.15.241 15.15.242 15.15.243 15.15.244
	Set Tunneling Addresses	Set
	Routing Multicast Address 224.0.23.12	
	Serial Number	0072-7005401F

Figure 11: KNX Tab

Web Front-end

5.4 Firmware Update / Boot Mode

Under the Update tab the UIMip firmware can be updated via IP i.e. the Ethernet network like described in following steps. During the remote update process UIMip enters Boot Mode. Then LEDs 1, 2, 3, and 5 light as described in Table 3.



If Boot Mode is already active only the web front-end instructions from step 3 to step 5 must be followed (refresh, request update).

To exit Boot Mode, it is necessary to enter the Update tab of the web front-end. Then either the firmware update has to be completed (if a new firmware is available) or the firmware update process has to be stopped by a click on the "Abort" button. After that UIMip restarts and continues with normal operation.

Step 1: Open the Update tab of the web front-end.

	To begin the update procedure an authorization is required. Set program mode active and after that give a short key press to the function button.
Device Info	Program Mode
	Function Button
KNX	Status: normal operation
Update	refresh

Figure 12: Update Tab

Step 2: Activate Programming Mode (KNX tab or Programming Button).

	To begin the update procedure an authorization is required. Set program mode active and after that give a short key press to the function button.
Device Info	Program Mode
	Function Button
KNX	Status: normal operation
Update	Please follow instructions above.
opuate	refresh

Figure 13: Update Tab and activated Programming Mode



Web Front-end

Step 3: After Programming Mode activation give a short press to the Function Button. Then click on the "refresh" button (alternatively, refresh the browser).

	Authorization valid. Please continue update procedure within 10 minutes.
Device Info	Program Mode
ких	Function Button Status: update authorized
Update	Please press button below to continue.
	refresh

Figure 14: Update Authorized

Step 4: When the "request update" button appears it has to be pressed to select the update file and enter "Boot Mode".

	Requesting an update sets the device to boot mode and suspends KNX-IP communication. Otherwise the device will log out automatically after 10 minutes.
Device Info	Device Mode: update authorized
	Timeout: 8 min
KNX	Please press button below to continue.
Update	request update

Figure 15: Request Update

Step 5: The update file can be selected and uploaded. After that, the device restarts. Clicking on the "Abort" button cancels the firmware update procedure and the device exits Boot Mode.

BOOT MODE	To initiate a firmware update please select a valid file in hex-format below. Otherwise the device will log out automatically after 10 minutes.		
	Status: update authorized		
	Select update file:		
	Durchsuchen		
	Upload		
	Abort		

Figure 16: Select Update File



5.5 IP Tunneling Address Assignment

The first tunneling address (additional individual address) of UIMip can only be set in the IP Tunneling window of the ETS Bus tab.



Additional individual addresses have to be different from the Host Individual Address.

Step 1: Open the ETS Bus tab and select UIMip as the "Current Interface". In the "IP Tunneling" window the already assigned host individual address can be read.

ings	KNX
rent Interface 9.1 UIMXX Pinterface (19.2.168.1.32:3671) Individual Address 9.1241	JP Tunneling Name UIM KNX IP Interface
Neue Verbindung (0.0.0.3671) 0.0.0.3671	Host Individual Address 9.1.1
scovered Interfaces	Individual Address 9.1.241 Address free?
	IP Address 192.168.1.32
	Port 3671
	MAC Address D0:76:50:00:08:83
	Ok Test dect
	Individual Address: 9.1.241 figured Interfaces Neue Verbindung (0.0.0.0.3671 0.0.0.0.3671

Figure 17: First Additional Individual Address (First Tunneling Address) Assignment

- Step 2: Set the first additional individual address by the "Individual Address" field. Click on the "Test" button. If the green Ok appears, the first tunneling address is set. In this example it is "9.1.241".
- Step 3: Now open the KNX tab of the web front-end. Click on the "Set" button to set the remaining three tunneling addresses basing on the first tunneling address as follows.

Device Info	Program Mode:	Off
	Change Program Mode:	ON OFF
KNX	Individual Address	9. 1. 0
Update	Tunneling Addresses	9. 1.241 9. 1.242 9. 1.243 9. 1.243
	Set Tunneling Addresses	Set
	Routing Multicast Addres	s 224.0.23.12
	Serial Number	FFFF-FFFFFFFF

Figure 18: Additional Tunneling Address Assignment in the Web Front-end



6 State of Delivery

6.1 Default Factory Setting

Table 8: Default Factory Setting

General		
Individual Address	15.15.255	
Tunneling Addresses	• 15.15.241	
	• 15.15.242	
	• 15.15.243	
	• 15.15.244	

IP configuration	
IP address assignment	DHCP/AutoIP



6.2 Technical Datasheet

Marking/Design	UIMip		
Current consumption	< 20 mA		
Connections	IP (line):RJ45 socket for 100 Mbit and 10 Mbit BaseT, IEEE 802.3 networksKNX TP line:KNX TP connector (red/black), screwless, for single-core cable Ø 0.60.8 mm		
LED Display elements	State (IP and TP) Traffic (IP and TP) Programming LED		
Control elements	Function Button Programming Button		
Mounting	35 mm top-hat rail (TH35) according to IEC60715		
Protection type	IP20 according to IEC60529		
Pollution degree	2 according to IEC60664-1		
Protection class	III according to IEC61140		
Overvoltage category	II according to IEC60664-1		
Approbation	KNX-certified according to ISO/IEC14543-3		
CE Marking	In compliance with directives 2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/EU (RoHS)		
Standards	EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 62368-1, EN IEC 63000, EN IEC 63044-3, EN IEC 63044-5-1, EN IEC 63044-5-2, EN IEC 63044-5-3		
Voltage supply	KNX: 2130V DC (SELV)		
Housing colour	Plastic PA66 housing, grey (similar to RAL9018 Papyrus white)		
Housing dimensions	H = 90 mm, W = 36 mm (2 modules), D = 71 mm		
Mounting depth	64 mm		
Weight	68 g		
Operating temperature	-545 °C		
Storage temperature	-2060 °C		
Ambient humidity	593 %, non-condensing		

State of Delivery

UIMip

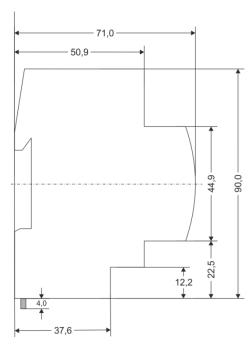
6.3

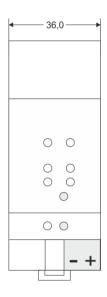
Technical Drawings

All dimensions shown here are specified in mm.

+

The total device width is 2 modules at 18 mm.





Dimensions in mm Tolerance: -0,5 mm/DIN 16742

Figure 19: Dimension drawings

Legal Notice

7 Legal Notice



IwIP is used in developing the UIMip.



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FAQ

8 FAQ

• The firmware update finished successfully but the device doesn't work.

To restart turn the power off and on again (dis-/reconnection of KNX TP line).

• Is it Ok to connect and disconnect the Ethernet cable quickly?

No! Don't do this. Before reconnection, wait for a few seconds.

- What shows the Programming LED if the Ethernet cable is not connected? Similar to having no IP network available, the Programming LED is blinking red.
- LED 2 Bus State KNX TP is continuously blinking green. Why?

This indicates UIMip is in Boot Mode. For more information and how to switch back to normal operation please refer to chapter 5.4.

• I disabled DHCP and assigned a correct IP configuration, but I cannot access the web front-end. Why?

Reset the UIMip and try again. More information about changing the IP network configuration can be found in chapter 4.2.

• I try to access the web front-end but I'm not successful. What can I do?

Make sure the URL bar entry matches the correct IP address together with the right HTTP port or use the MAC address in exactly the way as explained (chapter 5.1). Then wait for about 5 or 10 seconds, refresh the browser and try again.

• Is it possible to reach the web front-end when the device is in Boot Mode?

Yes, it is. The web front-end is accessible also in Boot Mode (chapter 5.4). When Boot Mode is active, the web front-end looks like illustrated in figure 4. To run a firmware update procedure and/or exit Boot Mode the web front-end Update tab must be used. Otherwise, after 10 min Boot Mode will be switched off automatically.

• I was able to reach the web front-end. But when I try to use its tabs or buttons my browser only shows a connection error to me. What can I do?

Refresh the browser window. The web front-end will show up again.

• How can I find out the actual IP address of my UIMip?

The Device Info tab of the web front-end and the list of Discovered Interfaces in ETS both show the actual IP address.



UIMip

Product:	KNX IP Interface		
Doctype:	Technical & Application Description		
Release Number / Release Date:	R1.6 / November 2022		
<u>TAD is intended for:</u> (y = a,b,c,)	Databases ETS version	R1-1y ETS4 and higher	
Web:	https://www.apricum.com/uimip		
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