Hardware Manual

LAN Industrial Router

ICR-2501

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Used symbols

Important

Important — Indicates a risk to personal safety or potential damage to the router. Follow these instructions precisely to prevent injury or equipment damage.

Warning

Warning — Highlights conditions that may cause malfunction, loss of data, or unexpected behavior in specific situations. Read carefully before proceeding.

Info

Info — Provides helpful tips, context, or references that improve understanding but are not strictly required to complete the task.

Code Example

```
Code Example - Copy-pasteable configuration snippets or CLI commands.
```

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1. Product Overview

1.1 Product Introduction

The ICR-2501 stands as a **LAN Router** and a edge computing gateway targeted at the global market. It is optimally designed for IoT applications across various sectors, such as industrial routers and gateways, digital signage, and industrial PCs and tablets.

The router is equipped with two independently configurable **Ethernet interfaces** (ETH0 switch with 3 ports and ETH1 with one port) and with one **digital input** together with one **digital output**. The router can be equipped with a **dual-band Wi-Fi module**, but this must be part of the initial configuration – it cannot be assembled to the router at some point in the future.

Router configuration is accessible through a **secure web interface**, offering detailed insights into the entire configuration, statuses, signal strength, and logs.

Basic features include **two-factor authentication**, **IPv6 Dual Stack**, **DHCP**, **NAT**, **NAT-T**, **DynDNS**, **DNS proxy**, **VLAN**, **QoS**, **NTP**, **VRRP**, **port forwarding**, and **connection backup**, among others. The router supports various VPN protocols, including **IPSec**, **OpenVPN**, **GRE**, **L2TP**, and **PPTP**, ensuring secure communication.

The router allows for the insertion of **Linux scripts** for automated tasks. It supports the definition of up to **four distinct profiles**, switchable via the web interface, SMS, or digital input.

Router Apps enhance router functionality through custom software programs. For Advantech routers, a diverse array of Router Apps is offered, encompassing categories such as connectivity, routing, services, among others, freely accessible on the Advantech *Router Apps* webpage. Additionally, directly from the router web interface, you can use an **Advantech public server** for the Router App or router firmware installation/update.

Compatibility with Advantech's **remote device management** platform, *WebAccess/DMP*, offers extensive device management and monitoring, ensuring that devices remain up-to-date and secure.

1.2 Hardware Overview

In this chapter, all components of the router case are described, including links to chapters that provide more details.

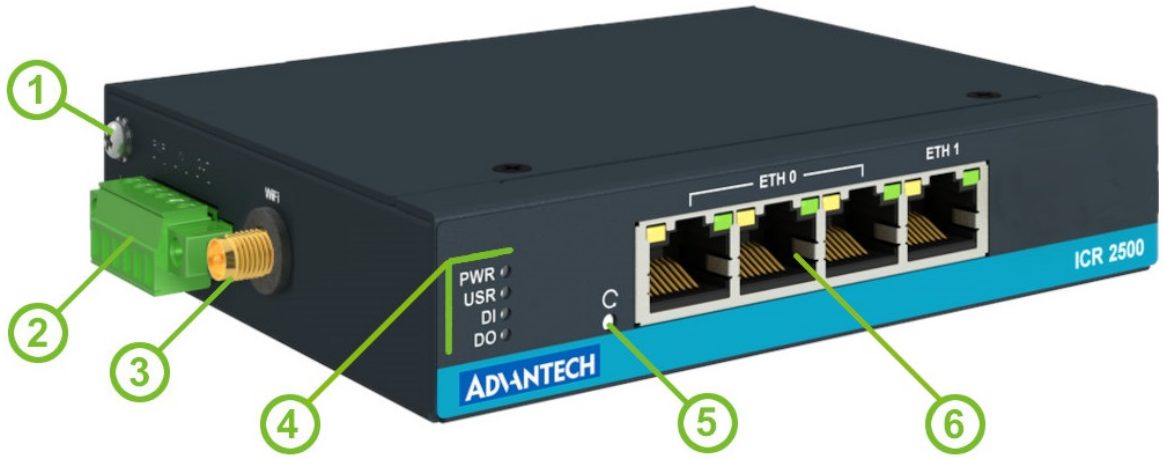

Figure 1: Router hardware overview – front view

#	Item	Type	Description
1	Grounding screw	M3	Pay attention to proper grounding; see Chapter 2.3.
2	PWR IN/OUT	6-pin terminal	Power supply, digital input, and digital output interfaces. See Chapter 2.3, Chapter 2.4 for more information, Chapter 3.5 for I/O parameters.
3	AUX	RP-SMA female	Connector for the Wi-Fi antenna; see Chapter 2.1 and Chapter 3.4 for Wi-Fi parameters.
4	LEDs	-	Status LED indication; see Chapter 2.5.
5	RST	-	Button to reboot the router or to restore the default configuration; see Chapter 2.6.
6	ETH0 ETH1	3× RJ45 1× RJ45	100 MB Ethernet switch connections for the first LAN and Ethernet connection for the second LAN; see Chapter 2.2.

Table 1: Router hardware overview – front view

Figure 2: Router hardware overview – rear view

#	Item	Type	Description
7	DIN clip	-	DIN rail clip, **not included** as standard accessories; see Chapter 1.9.
8	Wall clip	-	Wall mounting clip, included as standard accessories; see Chapter 1.8.

Table 2: Router hardware overview – rear view

1.3 Order Codes

The table below provides an overview of the order codes.

Order code	Configuration
ICR-2501	LAN router, 64 MB NOR Flash, 3x ETH0 switch, 1x ETH1, 1x Digital Input, 1x Digital Output,
ICR-2501**W**	LAN router, 64 MB NOR Flash, 3x ETH0 switch, 1x ETH1, 1x Digital Input, 1x Digital Output, **dual-band Wi-Fi**

Table 3: Order code overview

1.4 Product Revisions

For the product revision history of the entire product platform, refer to the table below. Please note that some revisions may not be available for certain order codes. The revision number is printed on both the packaging and product labels.
The router GUI can also display the product revision under *Status* → *General* → *System Information* → *Product Revision*. Please note that the default revision (Rev.1.0) is unavailable here.

Rev.#	Description
1.0	Initial version (revision number not printed on the labels).
2.0	New design of the mainboard; refer to PCN-2023-05 for details.
2.1	Changed the Wi-Fi label on the chassis to "AUX"; refer to PCN-2024-05 for details.

Table 4: HW revision history

1.5 Package Contents

The standard set of router includes items listed in the following table:

Item#	Description	Figure	Q'ty
1	Router		1 pcs
2	Wall mounting clip with screws		1 set
3	6-pin terminal block for power supply, digital input and digital output (deployed on the router)		1 pcs
4	Printed *Quick Start Guide Leaflet*		1 pcs

Table 5: Package contents

1.6 Product Dimensions

For the dimensions of the product see the figures below. Note that all sizes are measured in millimeters.

Variant with Wall-Mounting Clip

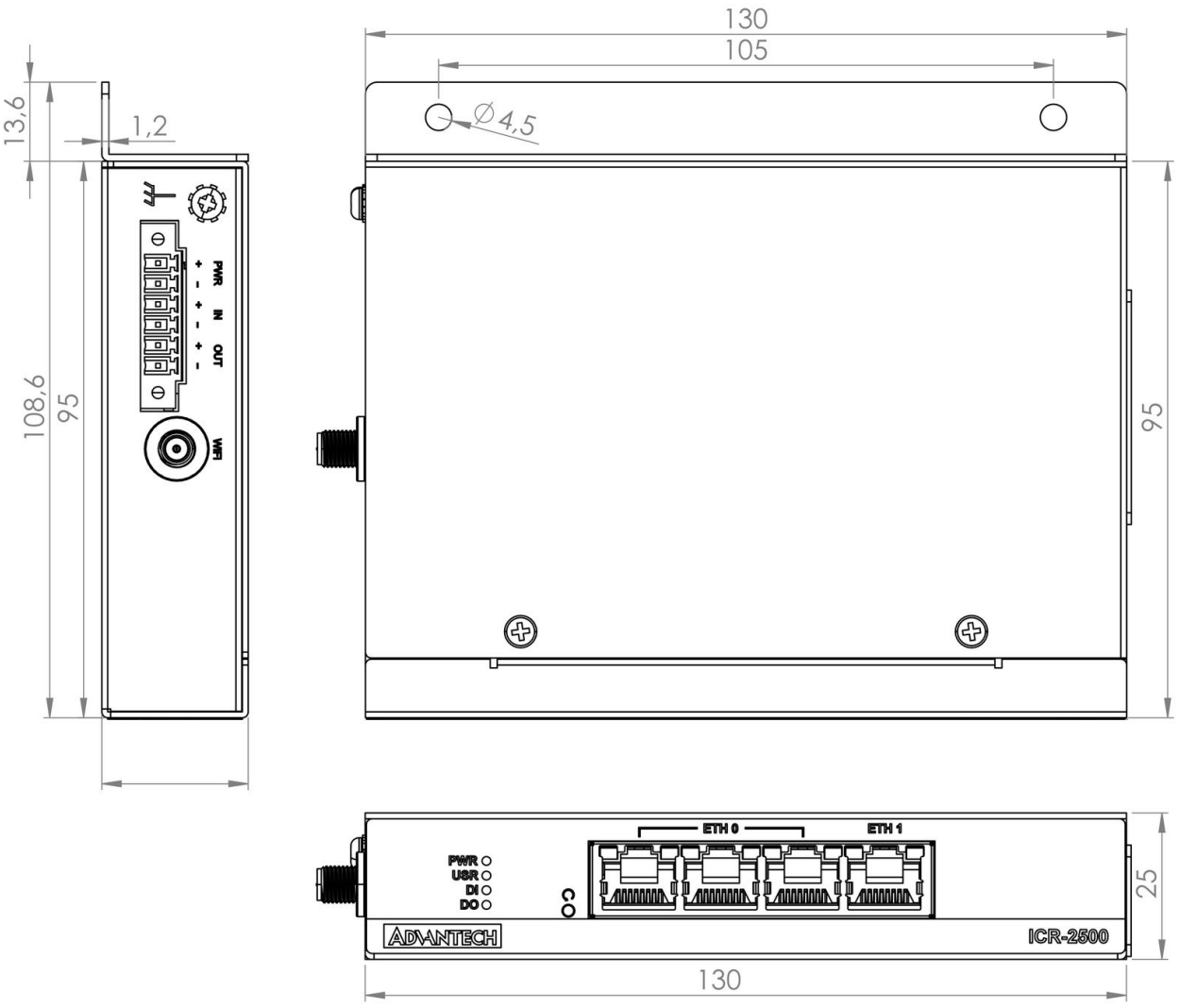

Figure 3: Router dimensions – top, side and front view with wall-mounting clip

Variant with DIN Rail Clip

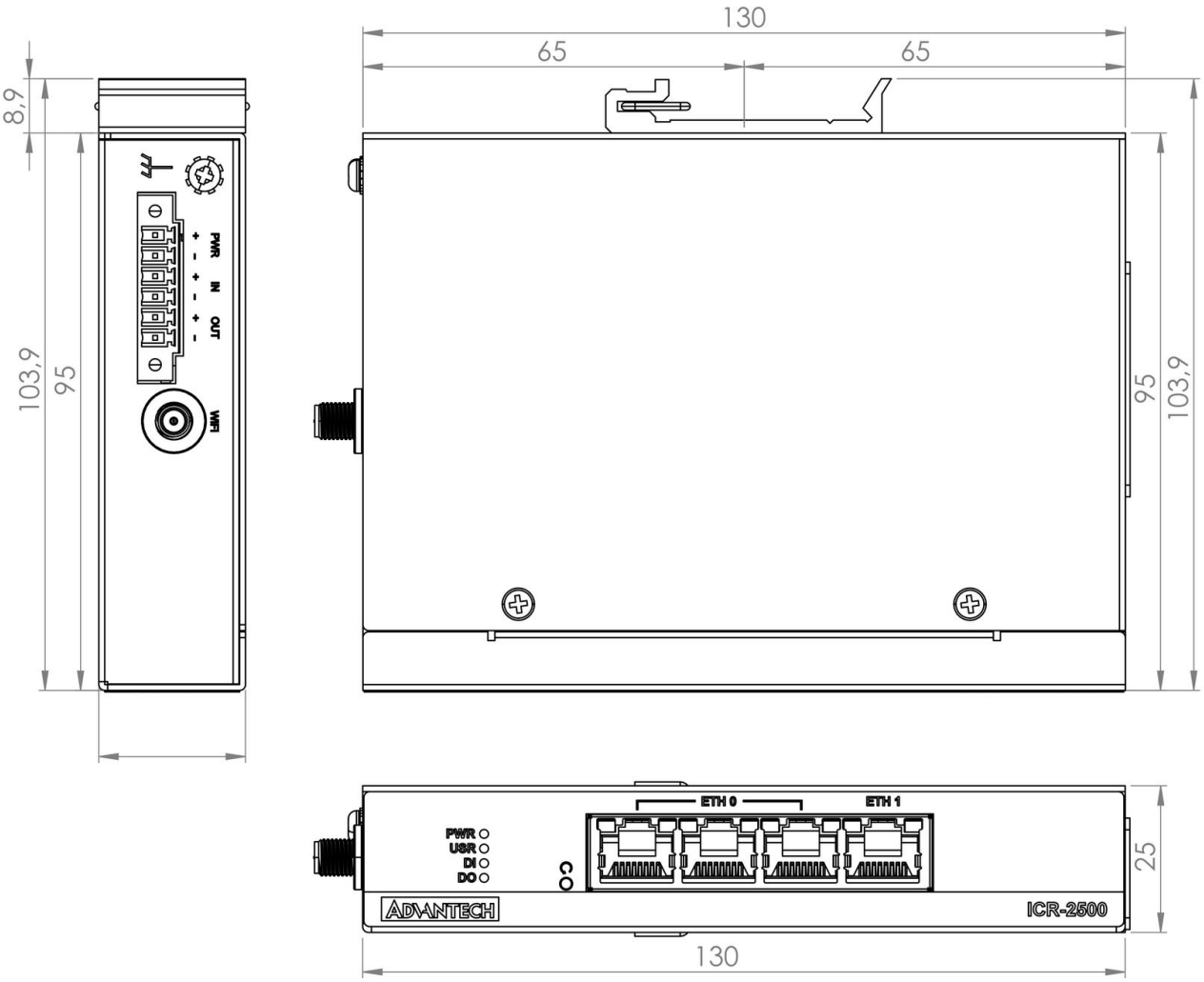

Figure 4: Router dimensions – top, side and front view with DIN rail clip

1.7 Mounting Recommendations

The router can be placed:

- on a flat surface,
- on a wall using the wall-mounting clip (see Chapter 1.8),
- on a DIN rail EN 60715 with the metal DIN rail clip (see Chapter 1.9)

For most applications with a built-in router within a switchboard, it is possible to recognize two kinds of environments:

- A non-public, industry environment of low voltage with high interference,
- a public environment of low voltage and without high interference.

For both of these environments, it is possible to mount the router to a switchboard, after which there is no need to have examination immunity or issues in connection with EMC according to EN 61439-1:2011.

Warning

In compliance with the EN 61439-1:2011 specification, it is necessary to observe the following assembly instructions for a router attached to a switchboard:

- For whip antennas it is recommended to observe a minimum distance of 6 cm from cables and metal surfaces on every side in order to avoid interference. When using an external antenna separate from the switchboard it is necessary to fit a lightning conductor.
- When mounting a router on sheet-steel we recommend using a cable antenna.
- For all cables, we recommend to bind the bunch, and for this we recommend:
  - The length of the bunch (the combination of power supply and data cables) should be a maximum 1.5 m. If the length of data cables exceeds 1.5 m or if the cable is leading towards the switchboard, we recommend installing surge protectors.
  - Data cables must not have a reticular tension of $\sim$ 230 V/50 Hz or $\sim$ 120 V/60 Hz.
- Sufficient space must be left between each connector for the handling of cables,
- To ensure the correct functioning of the router we recommend the use of an earth-bonding distribution frame for the grounding of the grounding screew, see Chapter 2.3.

1.8 Wall-Mounting

Info

The wall-mounting clip is supplied with the router as standard accessories.

The router can be screwed to a wall (or another surface) using the wall-mounting clip. There are two wholes on the clip with a diameter of 4 millimeters. For detailed information about the mounting dimensions see Figure 3 in Chapter 1.6.

Warning

When mounting the wall-mounting clip, tighten the screws with max. torque of 0.4 Nm.

Figure 5: Screwed wall-mounting clip

1.9 DIN Rail Mounting

Info

The DIN rail clip is not supplied with the router as standard accessories, but it can be ordered by the order code *BB-DIN-ICR32*.

The DIN rail clip is suitable for a DIN rail according to EN 60715 standard only. The default position of the clip is shown in Figure 6.

Warning

When mounting the DIN rail clip, tighten the screws with max. torque of 0.4 Nm.

Figure 6: Position of the DIN rail clip

To remove the router from the DIN rail it is necessary to lightly push down the router so that the bottom part of the DIN rail clip hitched to the DIN rail get out of this rail and then fold out the bottom part of the router away from the DIN rail, see Figure 7.

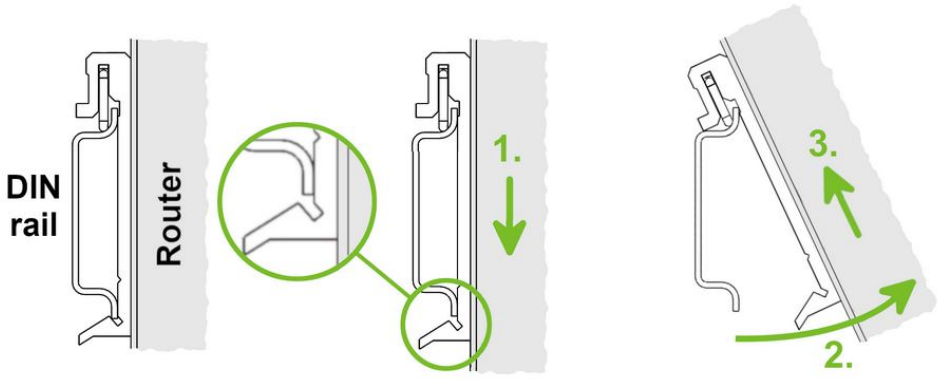

Figure 7: Removing the router from the DIN rail

1.10 Product Label

The figure below shows an example of the product labels with all the information printed on them.

Figure 8: Product label

1.11 First Use

You can perform the initial configuration of the router using a web browser on your PC. This interface enables router monitoring, configuration, and administration.

Warning

- Before putting the router into operation, ensure that all components required for running your applications are connected. Refer to Chapter *1.2 Hardware Overview* for an overview of the hardware.

The procedure for connecting to a new router is described in the *Configuration Manual* [1], Chapter *Introduction → Configuration Environments → Initial Web Configuration GUI Access*. This manual also provides detailed descriptions and examples of router configuration using the web interface.

2. Hardware Functionality

See Chapter 1.2 for an overview of the product's hardware, along with links to chapters offering detailed explanations.

2.1 Antennas

Connect Wi-Fi antenna to the RP-SMA female connector on the side of the router.

Info

The thread of the SMA connector for the Wi-Fi antenna is connected to the internal ground, see Figure 14.

Info

Recommended tightening moment for screwing the Wi-Fi antennas to the SMA female connectors is 0.9 Nm.

2.2 Ethernet Interfaces

These router models provide one ETH1 port and three switched ETH0 ports. As shown in Figure 9, when viewing the router from the front, the first port on the left belongs to the ETH0 interface.

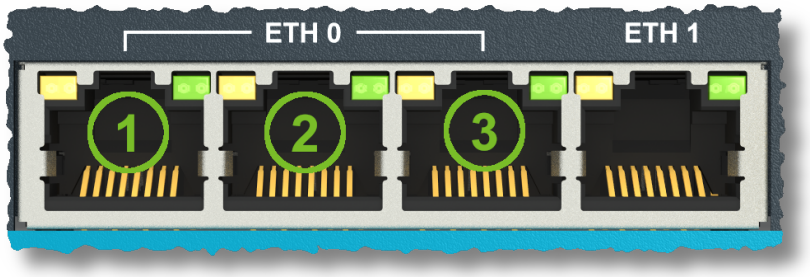

Figure 9: ETH0 port layout

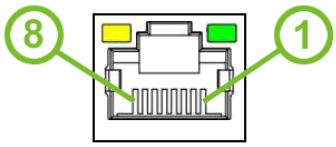

Figure 10: Ethernet RJ45 connector

Pin	Signal	Description
1	Tx+	Transmit Data+
2	Tx-	Transmit Data-
3	Rx+	Receive Data+
4	—	Not Connected
5	—	Not Connected
6	Rx-	Receive Data-
7	—	Not Connected
8	—	Not Connected

Table 6: Ethernet connector pinout

Info

The Ethernet ports provide an isolation barrier of 1500 V from the router's ground.

2.3 Power Supply

The power supply pins are physically connected to the 6-pin terminal block panel socket located on the left panel. The connection of the power supply is illustrated in Figure 11 and described in Table 7.

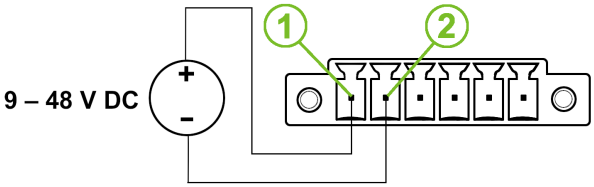

Figure 11: Power supply connection

Pin	Signal mark	Description
1	PWR(+)	Positive pole of DC supply voltage (+9 to +48 V DC)
2	PWR(-)	Negative pole of DC supply voltage

Table 7: Power connector pinout

The required power supply voltage for the router ranges between +9 V and +48 V DC. Refer to the connection scheme in Figure 11 for proper setup. The router is equipped with built-in protection against reversed polarity, functioning without signaling. To guarantee correct operation, the power source must be capable of providing a sufficient amount of energy, as detailed in the consumption section of Chapter 3.1.

Warning

Unit has to be supplied by a power supply specified as a Limited Power Source (LPS) or CEC/NEC Class 2 source of supply.

Info

The power supply (common pole) is not connected to the metal case of the router nor to the internal ground, see Figure 14.

If recommended for the installation environment, it is advised to protect the router by properly grounding it using the grounding screw, as illustrated in Figure 12.

Figure 12: Grounding screw position

2.4 I/O Port Interfaces

The pins of I/O interface are physically connected to the 6-pin terminal block panel socket located on the left panel. The pinout of one digital input and one digital output is shown in Figure 13 and described in Table 8.

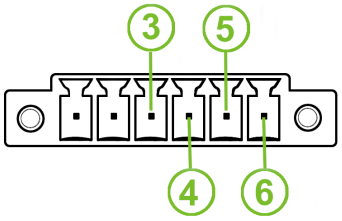

Figure 13: I/O connection

Pin	Signal mark	Description
3	IN(+)	The digital input (positive pole)
4	IN(-)	The digital input (negative pole)
5	OUT(+)	The digital output (positive pole)
6	OUT(-)	The digital output (negative pole)

Table 8: I/O connector pinout

The I/O user interface is designed for digital input processing and digital output control. For detailed electrical parameters see Chapter 3.5. The functional scheme of connection for the digital input and digital output is in Figure 14.

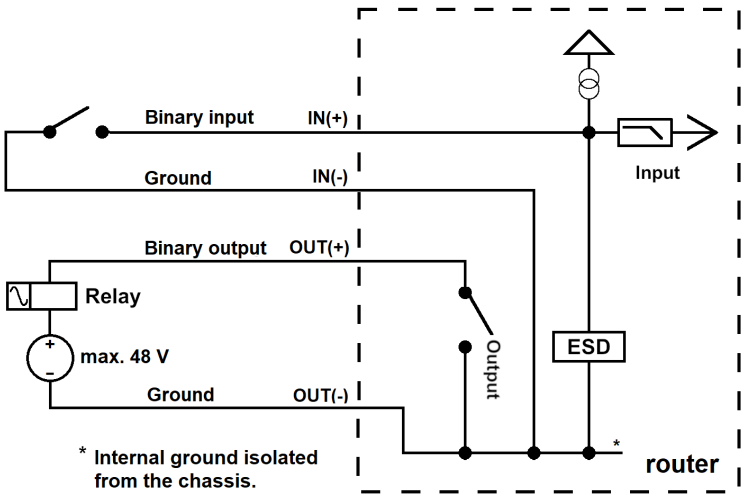

Figure 14: Functional block diagram of the digital interface

2.5 LED Status Indication

There are LED indicators on the front panel of the router to provide router status information. Moreover, ETH connector, has two additional LEDs providing information about the port status.

Caption	Color	State	Description
PWR	Green Green Green	On Blinking Fast blinking	The router is booting up. The router booted up and is ready. The router firmware is being updated.
USR	Green	—	The function of this LED is user-defined.
DI	Green	On	The digital input is active.
DO	Green	On	The digital output is active.
ETH0 ETH1	Green Green	On Off	Selected 100 Mbps bit rate. Selected 10 Mbps bit rate.
ETH0 ETH1	Orange Orange Orange	On Blinking Off	The network cable is connected. Data transmission. The network cable is not connected.

Table 9: LED status indication

2.6 Reset Functions

The *RST* button has multiple functions. For more details, refer to the configuration manual [1], Chapter *Introduction* → *Device* → *Reset*.

Info

Use a narrow screwdriver or a small tool to press the *RST* button.

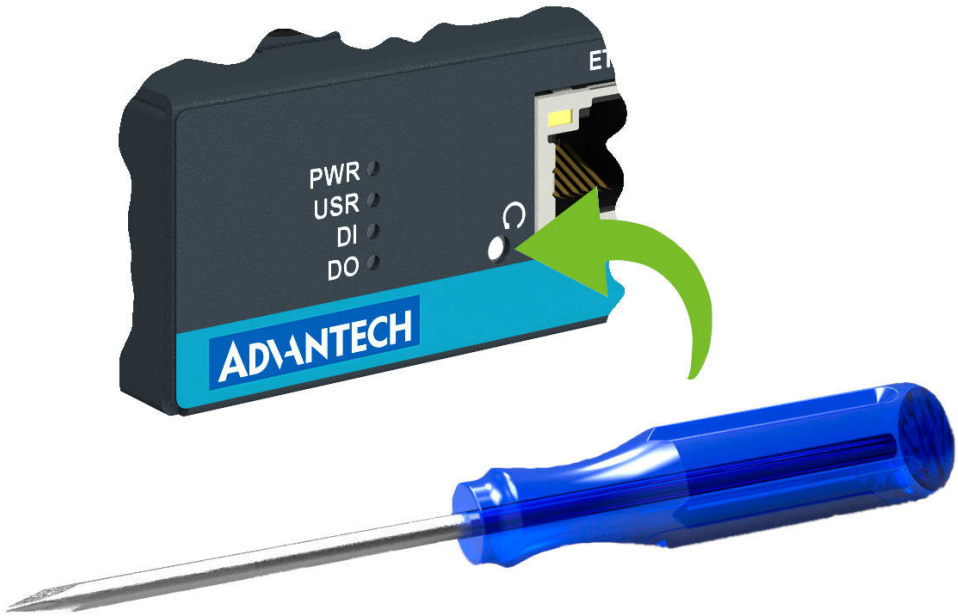

Figure 15: Resetting the router

3. Technical Specifications

3.1 Basic Technical Parameters

Parameter	Conditions	Description
Temperature range	Operating Storage	-40 °C to +75 °C (-40 °F to +167 °F) -40 °C to +85 °C (-40 °F to +185 °F)
Humidity	Operating Storage	5 to 95 % relative humidity non condensing 5 to 95 % relative humidity non condensing
Altitude	Operating	2000 m / 70 kPa
Degree of protection		IP30
Supply voltage		9 to 48 V DC
Battery for RTC		CR2032 / CR1225[1]
Consumption for non-Wi-Fi | Wi-Fi	Idle Average Maximum	2.2 W | 2.5 W 2.6 W | 2.9 W 4.1 W | 6.0 W
Dimensions of device w/o clip		130 × 95 × 25 mm (5.19" × 3.74" × 0.98")
DIN rail clip (optional part) specification		DIN 35 mm, EN 60715
Weight for non-Wi-Fi | Wi-Fi	Box w/o clip	355 g (0.78 lbs) | 365 g (0.80 lbs)

Table 10: Basic technical parameters

[1] For product revision 2.0 and higher.

3.2 Standards and Regulations

The router complies with the following standards and regulations:

Parameter	Description
Radio	ETSI EN 300 328, ETSI EN 301 893
EMC	ETSI EN 301 489-1, ETSI EN 301 489-17, EN 55032, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-2, EN 61000-6-3
Safety	EN IEC 62368-1, EN IEC 62311, IEEE 802.3
Cybersecurity	EN 18031-1
National	CE, UKCA compliant
Environmental	REACH, RoHS3 and WEEE compliant

Table 11: Standards and regulations

3.3 Type Testing and Environmental Conditions

Phenomena	Test	Description	Test levels
ESD	EN 61000-4-2	Enclosure	CD ± 6 kV, L3
RF field AM modulated	EN 61000-4-3	Enclosure	20 V/m, 80 MHz-1 GHz, LX 10 V/m, 1 GHz-6 GHz, L3
Fast transient	EN 61000-4-4	DC port ETH - FTP Digital input Digital output	± 1 kV, 5/50 Tr/Th ns, 100 kHz, L2 ± 1 kV, 5/50 Tr/Th ns, 100 kHz, L3 ± 1 kV, 5/50 Tr/Th ns, 100 kHz, L3 ± 1 kV, 5/50 Tr/Th ns, 100 kHz, L3
Surge	EN 61000-4-5	ETH	± 1 kV, 1.2/50(8/20) Tr/Th us, L2
RF conducted	EN 61000-4-6	DC port ETH I/O ports	10 V, 0.15-80 MHz, 80%AM(1kHz), L3 10 V, 0.15-80 MHz, 80%AM(1kHz), L3 10 V, 0.15-80 MHz, 80%AM(1kHz), L3
Radiated emission	EN 55032	Enclosure	Class B, 30 MHz-1 GHz, 1 GHz-6 GHz
Conducted emission	EN 55032	DC power port Ethernet ports	Class B, 150 kHz-30 MHz Class B, 150 kHz-30 MHz
Dry heat	EN 60068-2-2	Operating Storage	Test Bb, storage +75 °C Test Bd, operation +85 °C
Cold	EN 60068-2-1	Operating Storage	Test Ab, storage -40 °C Test Ad, operation -40 °C
Variation of temperature	EN 60068-2-14	Test Nb, -40 °C / +75 °C, 3h/3h, 2 cycles, 3 K/min	
Dry heat, cyclic	EN 60068-2-30	+55 °C / +25 °C, rel. humidity 95 %, 6 h-6 h	

Table 12: Type testing and environmental conditions

3.4 Parameters of Wi-Fi

Parameter	Description
Supported Standards	IEEE 802.11a/b/g/n/ac, 2.4 GHz & 5 GHz
Antenna Connector	1x RP-SMA Input impedance: 50 Ω
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: Max. 72 Mbps @ 20 MHz channel 802.11n: Max. 150 Mbps @ 40 MHz channel
Frequency Ranges	2.4 GHz ISM Bands 2.412-2.472 GHz 5.15-5.25 GHz (FCC UNII-low band) for US/Canada and EU 5.25-5.35 GHz (FCC UNII-middle band) for US/Canada and EU 5.47-5.725 GHz for EU 5.725-5.825 GHz (FCC UNII-high band) for US/Canada
Modulation	DSSS, OFDM, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM
2.4 GHz Channels	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
5 GHz Channels	36, 38, 40, 42, 44, 46, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165
Type of Device	Access point (AP) (up to 8 clients) Station (STA) Multirole (STA&AP)
Security – Standards	WPA, WPA2, WPA3, 802.1X
Security – Encryption	WEP, TKIP, AES
TX Power	Max. 18 dBm @ 2.4 GHz Max. 15 dBm @ 5 GHz

Table 13: Technical parameters of Wi-Fi

3.5 Parameters of I/O Ports

Electrical characteristics of the digital input are in Table 14. Status of the digital input is reported in the GUI on *General Status* page or can be retrieved in the Shell via `io get bin0` command.

get command output	Voltage	Web interface status
0	$\leq$ 0.8 V (0.5 mA))	On
1	$\geq$ 2 V	Off

Table 14: Technical parameters of digital input

The maximum digital output load is **100 mA** at **9 – 48 V**.

3.6 System Configuration

The main parametes of the system are listed in Table 15.

Parameter	Description
CPU architecture	32-bit ARM926EJ-S
CPU frequency	600 MHz
CPU power	4,72 DMIPS/MHz
Flash memory	64 MB NOR Flash • 12 MB for Router Apps • 2 MB for customer data
RAM size	128 MB
Watchdog	HW Watchdog
RTC	Battery Backup RTC

Table 15: System configuration

Appendix A: Troubleshooting

Warning

If you cannot connect to the router from your PC, your network card may be configured in such a way that it is not possible to connect to the router. Take one or more of the following steps in order to solve the problem:

- Make sure your PC's network card is configured to obtain the IP address form the DHCP server (by default the DHCP server is running in the router).
- Connect the router to the PC via Switch.
- Connect the router to the PC, start the router first and then start the PC after the router's initialization.

✍ **Ethernet connection fails or is not establishing.**

- It is possible to turn auto negotiation off and set a rate and duplex manually on the Ethernet interface of the router. Available on "LAN Configuration" page in the router.

✍ **I cannot connect from the Internet to the device behind the router. I have NAT enabled.**

- The device's gateway has to be configured so it points to the router.

✍ **I can't access my Web server placed behind the router over NAT.**

- The remote HTTP access to the router has to be disabled on "NAT Configuration" page in the router. Also enable "Send all remaining incoming packets to default server" feature and fill in the IP address of your Web server. On the Web server, the default gateway has to be the IP address of the router.

✍ **DynDNS doesn't work.**

- If the same IP address is recorded in your canonic name as a dynamically assigned address, it means that the provider is using NAT or a firewall.
- You can verify NAT using ping to your server with static address and then compare with router's IP address.
- You can verify a Firewall by accessing remotely to the router's Web interface.
- The operator may not provide the address of DNS server and without DNS server's address it is impossible to connect to the dyndns.org server. The following messages will be shown in the System Log:
  - DynDNS daemon started
  - Error resolving hostname: no such file or directory
  - Connect to DynDNS server failed

✍ **L2TP or IPSec isn't establishing.**

- Check the "System Log" page for error messages.

✍ **IPSec tunnel establishes but the communication does not run.**

- Probably there are bad routing rules defined in the connected devices, or the default gateway.

✍ **Is the router Cisco compatible? Can I use the Cisco configuration?**

- No, the Firmware in the router (ICR-OS) is based on Linux with BusyBox. Thus the Cisco configuration cannot be used. But network connections are defined by standards so connecting the router to the Cisco or other networking devices is possible and will be compatible.

✍ **FTP or SFTP does not work**

- FTP will work on v2 routers only. You can use SFTP on all routers to transfer files to/from the router. If having troubles with FTP on v2 routers, make sure you have FTP enabled: "Configuration" section, "Services", "FTP". Then you can connect with any client on port 21 with name and password same as for the Web interface. If having troubles with SFTP, make sure you have SSH enabled: "Configuration" section, "Services", "SSH". Then you can connect with any client on port 22 with name and password same as for the Web interface.

✍ **How can I connect to the router's command line? (SSH, Telnet)**

- You can use SSH on all routers or Telnet on v2 routers only. SSH is enabled by default, but you can verify in Web interface in "Configuration" section, "Services", "SSH". Then connect with any SSH client on port 22 of the router. User and password is the same as for the Web interface. Telnet on v2 routers can be enabled here: "Configuration" section, "Services", "Telnet".

Appendix B: Customer Support

Customer Support for Europe

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Fax: +886-2-2794-7327
E-mail: icg.support@advantech.com.tw
Web: www.advantech.com

Appendix C: Regulatory & Safety Information

Safety Notices

For your safety and proper operation of the device, please observe the following instructions:

- The router must comply with all applicable international, national, and local regulations, including any specific restrictions concerning its use in designated applications and environments.
- To avoid personal injury or damage to the device, use only accessories that are approved or supplied by the manufacturer. Unauthorized modifications or the use of non-approved accessories may damage the router, violate regulations, and void the warranty.
- Do not attempt to open the router enclosure under any circumstances.

Important

This equipment is not suitable for use by or near young children.

- Always ensure that the power supply voltage does not exceed 48 V DC.
- Do not expose the router to harsh environmental conditions. Protect it from dust, moisture, and excessive temperatures.
- Use only routers with proper certifications and markings in areas containing flammable or explosive materials (such as gas stations, chemical plants, or locations with explosives). In these environments, always follow the applicable restrictions regarding the use of radio devices.
- When traveling by airplane, always switch off the router. Using the router on board may endanger flight safety, interfere with mobile networks, and violate local regulations. Non-compliance can result in suspension or cancellation of telecommunications services or legal penalties.
- Take special care when operating the router in close proximity to personal medical devices such as cardiac pacemakers or hearing aids. If in doubt, consult the manufacturer of the medical device or your physician.
- This device may cause interference if used near television sets, radio receivers, or personal computers.
- Maintain a minimum separation distance of at least 20 cm between the router and the human body during operation.
- It is strongly recommended to regularly back up all critical configuration data stored in the router's memory.

Product Disposal Instructions

The WEEE directive (Waste Electrical and Electronic Equipment: 2012/19/EU) ensures the environmentally responsible recycling and recovery of electronic products. This device contains high-quality materials and components suitable for recycling. At the end of its life, **do not dispose of this product with ordinary commercial waste**. The router also contains a battery. Remove the battery before disposing of the device, and ensure the battery is disposed of separately and in accordance with local regulations. For detailed information on product and battery disposal, consult your supplier's terms and conditions.

Appendix D: Related Documents

[1] *ICR-2[0456]00 Configuration Manual* (see *Documents to download* → *Manuals* section)

[EP] Product-related documents and applications can be obtained on **Engineering Portal** at `https://icr.advantech.com/download` address.

We, Advantech Czech s.r.o., declare that the radio equipment narrated in this user's manual complies with Directive **2014/53/EU** (WiFi version) and with the essential requirements and other relevant provisions of Directives **2014/30/EU** and **2014/35/EU** (non-WiFi version).

We, Advantech Czech s.r.o., declare that the radio equipment narrated in this user's manual complies with Radio Equipment Regulations 2017 (**S.I. 2017 No. 1206**) and with the Electromagnetic Compatibility Regulations 2016 (**S.I. 2016 No. 1091** and **S.I. 2016 No. 1101**).

The full text of the EU Declaration of Conformity is available at the following internet address:
icr.advantech.com/doc