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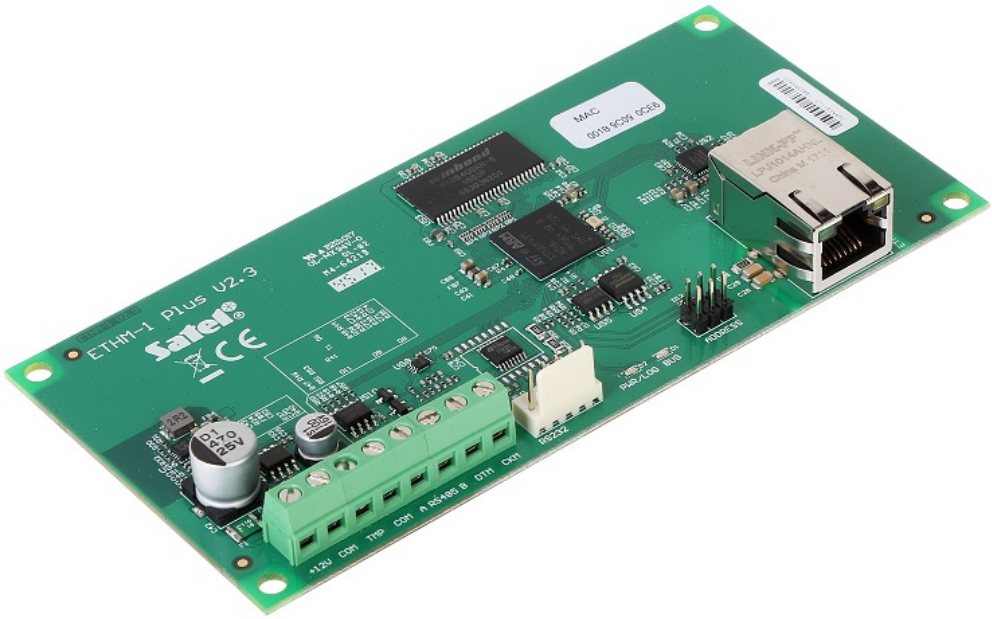
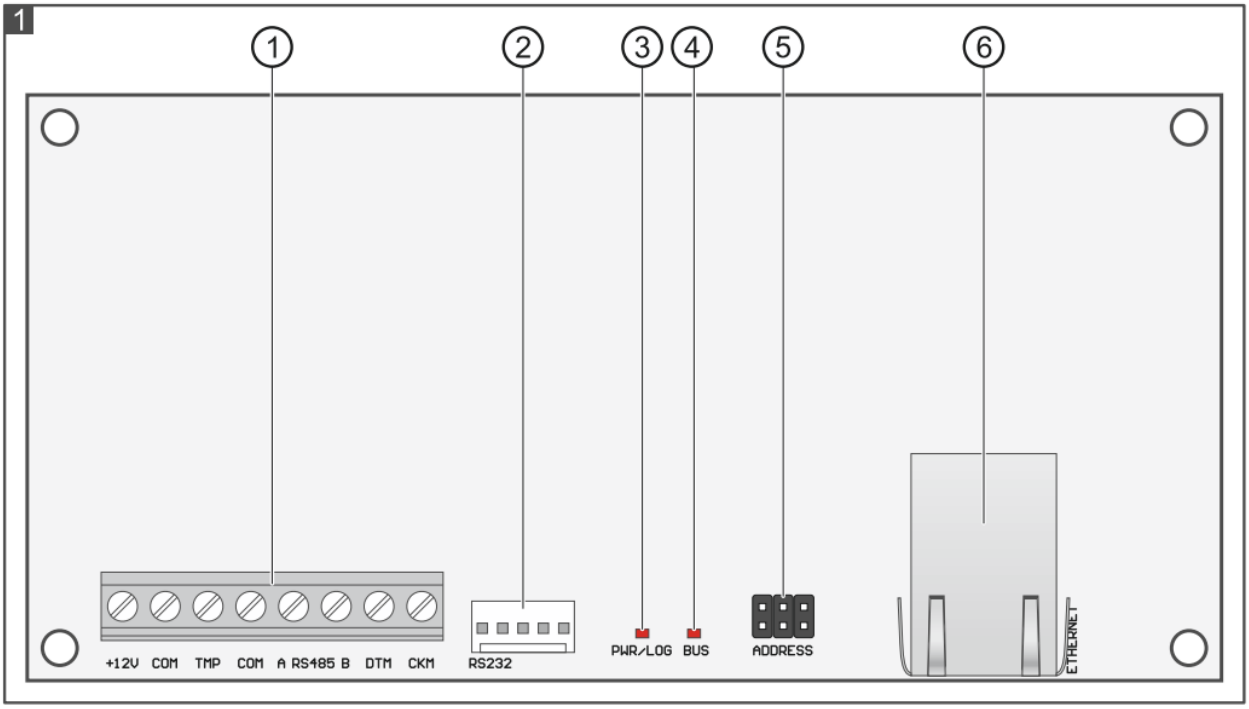
Satel ETHM-1 Plus Ethernet Communication Module



The electronics board is shown in Figure 1.

1. **Terminals:**
    - +12V – +12VDC power input.
    - COM – common ground.
    - TMP – tamper input (NC) – if not used, it should be shorted to the common ground.
    - A RS485 B – RS-485 port for connecting INT-GSM / INT-GSM LTE module if the ETHM-1 Plus module is connected to the INTEGRA Plus / INTEGRA (required control panel firmware version: 1.19 or newer).
    - DTM – data (communication bus).
    - CKM – clock (communication bus).
2. **RS-232 port.**
3. **PWR/LOG LED:** OK – power OK,
    - **Flashing** – communication via the module in progress.
4. **BUS LED** – blinking LED indicates that data exchange with the control panel is in progress.
5. pins for setting the module address (see “Setting address”).
6. RJ-45 connector for Ethernet network. It is provided with two LEDs:
    - **green** – ON when the module is connected to the network,
    - **yellow** – flashes during data transmission.



Setting address

- To set an address, place jumpers across the ADDRESS pins. Table 1 shows how to

use jumpers in order to set a specific address (jumper on; jumper off).

Address	0	1	2	3	4	5	6	7
Pins status								

Table 1.

Module connected to the INTEGRA / INTEGRA Plus control panel

Set an address in the module within the range:

- from 0 to 3, if it is connected to the INTEGRA 24 or INTEGRA 32 control panel,
- from 0 to 7, if it is connected to another INTEGRA or INTEGRA Plus control panel.

The address set must be different from that in the other devices connected to the keypad bus of the control panel (the control panel does not support devices with the same address).

Module connected to PERFECTA 64 M control panel

- Set address 6 in the module.

Module connected to the VERSA control panel

- Set address 4 in the module. No keypad with the address 4 may be connected to the control panel.

Installation

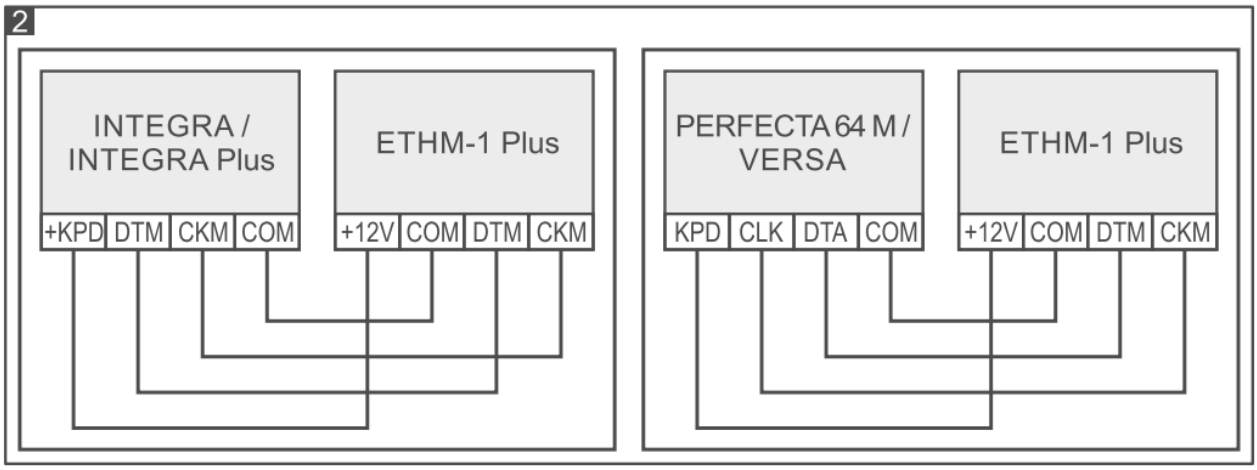
- The alarm system should be installed by qualified personnel.
- Disconnect power before making any electrical connections.
- The device is designed to be used only in the local area networks (LAN). It must not be connected directly to the public computer network (MAN, WAN). For establishing a connection with public networks, use a router or xDSL modem.

The device is designed for installation indoors, in spaces with normal air humidity.

- Secure the module electronics board in the enclosure. The module should be installed in the same enclosure as the control panel. This will facilitate connecting the RS-232

ports of control panel and module if it is required

- Set the module address (see “Setting address”).
- Connect the +12V, COM, DTM and CKM module terminals to the control panel terminals (Fig. 2). It is recommended that an unshielded non-twisted cable be used for making the connection. If you use the twisted-pair type of cable, remember that CKM (clock) and DTM (data) signals must not be sent through one twisted-pair cable. The wires must be run in one cable.
- If the module is to supervise the enclosure tamper switch, connect the tamper switch wires to the TMP and COM terminals. Otherwise, connect the TMP terminal to the module COM terminal.
- Connect the module to the Ethernet network. Use a cable compliant with the 100Base-TX standard (identical as for connecting the computer to the network).
- Power on the alarm system.
- Start the identification function in the control panel (see the control panel installer manual).
- Configure the module (see full manual).
- If it is required, connect the module RS-232 port to the control panel RS-232 port. Depending on the control panel, use the following:
  - INTEGRA with connector socket of PIN5 type: PIN5/PIN5 cable
  - INTEGRA with connector socket of RJ / INTEGRA Plus type: RJ/PIN5 cable
  - PERFECTA 64 M / VERSA: RS232-RSTTL converter
  - The above mentioned accessories are available in SATEL’s product offering.



MORE INFORMATION

- The declaration of conformity may be consulted at www.satel.pl/ce
- Full manual is available on www.satel.pl. Scan the QR code to go to our website and

download the manual.

When no longer in use, this device may not be discarded with household waste. Electronic equipment should be delivered to a specialized waste collection center. For information on the nearest waste collection center, please contact your local authorities. Help to protect the environment and natural resources by sustainable recycling of this device. Improper disposal of electronic waste is subject to fines.

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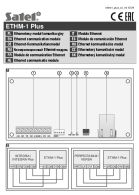
FAQs

- **Q: Can the ETHM-1 Plus module be connected to any alarm control panel?**
  - A: No, it is compatible with INTEGRA Plus, INTEGRA, PERFECTA 64 M, and VERSA alarm control panels only.
- **Q: What is the purpose of setting the module address?**
  - A: Setting the module address allows for proper communication and identification within the system.

Documents / Resources

	Satel ETHM-1 Plus Ethernet Communication Module [pdf] User Guide INTEGRA Plus, INTEGRA, PERFECTA 64 M, VERSA, ETHM-1 Plus Ethernet Communication Module, ETHM-1 Plus, Ethernet Communication Module, Communication Module, Module

References

- User Manual

Satel

Communication module, Ethernet Communication Module, ETHM-1 Plus, ETHM-1 Plus Ethernet Communication Module, Integra, INTEGRA Plus, Module, PERFECTA 64 M, Satel, versa

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