GEFRAN

G-Mation W55

INSTALLATION AND USER MANUAL

code: 85394 - 01-2026 - ENG

WARNING!

This manual must be available to persons interacting with the devices described here.
Always make sure you have the latest version of the manual, which can be freely downloaded from the GEFRAN website (www.gefran.com).
The extended version of the documentation presented here is also available online at https://wiki.gefran.com/wiki/g-mation-eng/ or by scanning the QR code

Installers and/or maintainers are obliged to read this manual and to scrupulously follow the instructions contained therein and in the annexes thereto, since GEFRAN shall not be liable for any damage caused to persons and/or property, or suffered by the product itself, if the conditions described below are not complied with

SUMMARIES AND INDEXES

1 PREFACE

1.1 Warnings and safety

Although all the information in this document has been carefully checked, Gefran S.p.A. cannot be held liable for the possible presence of errors, or for damage to persons or property due to improper use of this manual. Gefran S.p.A. also reserves the right to make changes to the content and form of this document and to the features of the devices it describes at any time without prior notice.

The devices described in this manual must be installed by qualified technicians, following current laws and regulations and in accordance with the instructions given in this manual.

If the card is used in applications with risk of injury, or of damage to machinery or materials, it must be combined with auxiliary alarm devices. It is advisable to provide for the possibility of checking alarm activation also during normal operation.
Before interacting with the card, the operator must be adequately instructed in the system operation, emergency,
diagnostics and maintenance procedures.

1.2 Typographical conventions used in the manual

Pay attention when the following symbols are found in the manual.

Indicates particularly important information relevant to correct product operation or safety, or provides instructions that must be strictly followed.

Highlights a risk condition for the installation technician or user due to hazardous voltage levels.

1.3 Glossary

Bootloader	A programme that loads the PLC in the boot phase.
Checksum	Sequence of bits used for verify the integrity of a file.
COBID	Communication OBject IDentifier, 11- bit identifier of a CAN frame.
MD5	Algorithm used to calculate the file checksums.
PDO	Process Data Object.
SDO	Service Data Object.
Watchdog	HW or SW supervision system that recovers temporary and brief system malfunctions.

2 BROWSER PANEL G-MATION W55

2.1 The G-Mation platform

Gefran's G-Mation platform offers an advanced solution for industrial automation.
At its heart is the "G-Mation P6" PLC, a **high-performance** real-time controller capable of offering industrial **edge computing** functionality.

Designed with **cybersecurity** in mind, the G-Mation P6 integrates **Docker** technology to implement new applications quickly and securely, even on machines already installed in the field.

The controller offers a **web server** where all pages and dashboards can be hosted for interaction with different users. Web-based visualisation technology ensures a modern and intuitive user experience, along with great flexibility in the number and format of displays on any device equipped with a browser.

G-Mation P6 is a dual **Ethercat** master with redundancy and distributed clock options.
The modular PLC can be expanded with **G-Mation G3** cards via the proprietary Ethercat-based G-BUS connector.
Complex star and tree topologies can be created using G3-JNC modules.

Programming is carried out using a single development tool: GF_PROJECT, which, through the five standard IEC61131-3 languages and a powerful graphic editor, allows complete and rapid management of the application software.

A series of specific **application TEMPLATES** for the **PLASTICS** and **HEAT TREATMENT** sectors are also available for immediate use and easy customisation.

2.2 Product overview

The G-Mation W55 Browser Panel series is the HMI solution for flexible display of HTML content, freeing the human-machine interface from the limitations of traditional systems.

Acting as an open terminal, the panel enables the use of integrated pages and applications run using Docker technology on the G-Mation P6 CPU.

This architecture guarantees the scalability of the solution over time, allowing the machine to evolve throughout its entire operating cycle and ensuring support for new features without hardware constraints.

Hybrid Design: Fully compatible with new HTML standards and legacy Java applications, ensuring a smooth technological transition.

Maximum Reliability: Aluminium alloy frame, capacitive multi-touch, available in widescreen sizes from 8" to 24" (HD/Full HD).
Easy and Secure: Guided setup, versatile installation (flush-mounted or VESA) and inherently secure architecture.

2.3 Programming tools

2.3.1 GF_Project

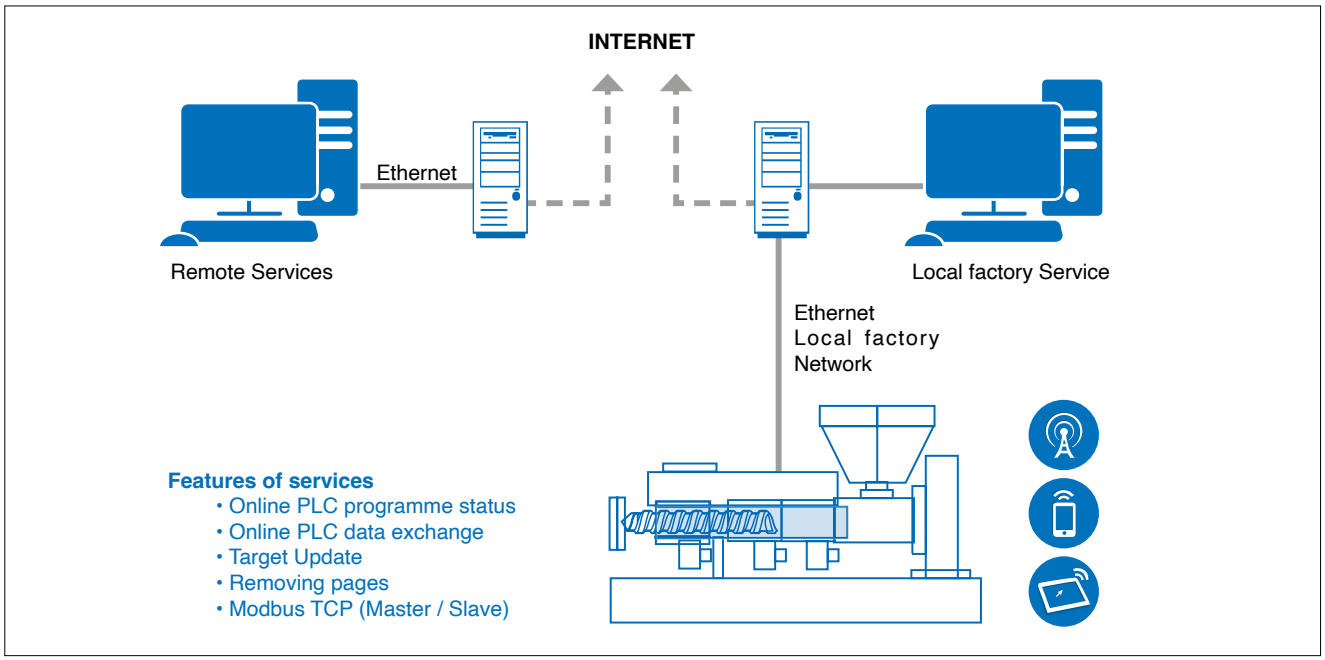
GF_Project is integrated development environment (IDE) for real-time control applications Gefran programmable automation devices.
GF_Project includes a series of tools for the development of different application solutions and those design phases such as maintenance or application software integration, testing and commissioning.

GF_Project able to:

- develop automation solutions while safeguarding the investment in application configuration and reducing time to market;
- realise applications for a complete control ofmachines and plants and the configuration of the graphical interface part;
- develop multi-platform solutions;
- reduce learning time, allowing guided development and eliminate configuration errors by exploiting graphical configuration;
- easily reuse parts of pre-existing designs;

GF_Project consists of integrated software modules, which through specific functionalities, allow an easy and intuitive configuration of an automation project:

- PROJECT MANAGEMENT: the system structure with a graphical visualisation allows each individual project module to be managed in a dedicated manner;
- HARDWARE CONFIGURATION: enables the configuration of field buses and all devices in the system architecture their operation;
- CONTROL: enables the definition of the automation solution according to IEC61131 programming languages (LD, ST, IL, SFC, FBD);
- CODE LIBRARY: the Gefran Function Block library provides configuration support thanks to Gefran's know-how in industrial applications. A series of dedicated FB (Function Block) and F(Function) libraries with specific functions allow the user simple and rapid software integration, reducing development and debugging time;
- OPERATOR INTERFACE: realisation in graphical mode of various user interface pages necessary for the developed application;
- DIAGNOSTICS: using GF_Project it is possible to connect to the device that will host the application to debug the programme and upload updates
- CONNECTIVITY: the environment supports the latest connectivity services to implement remote management or support services;



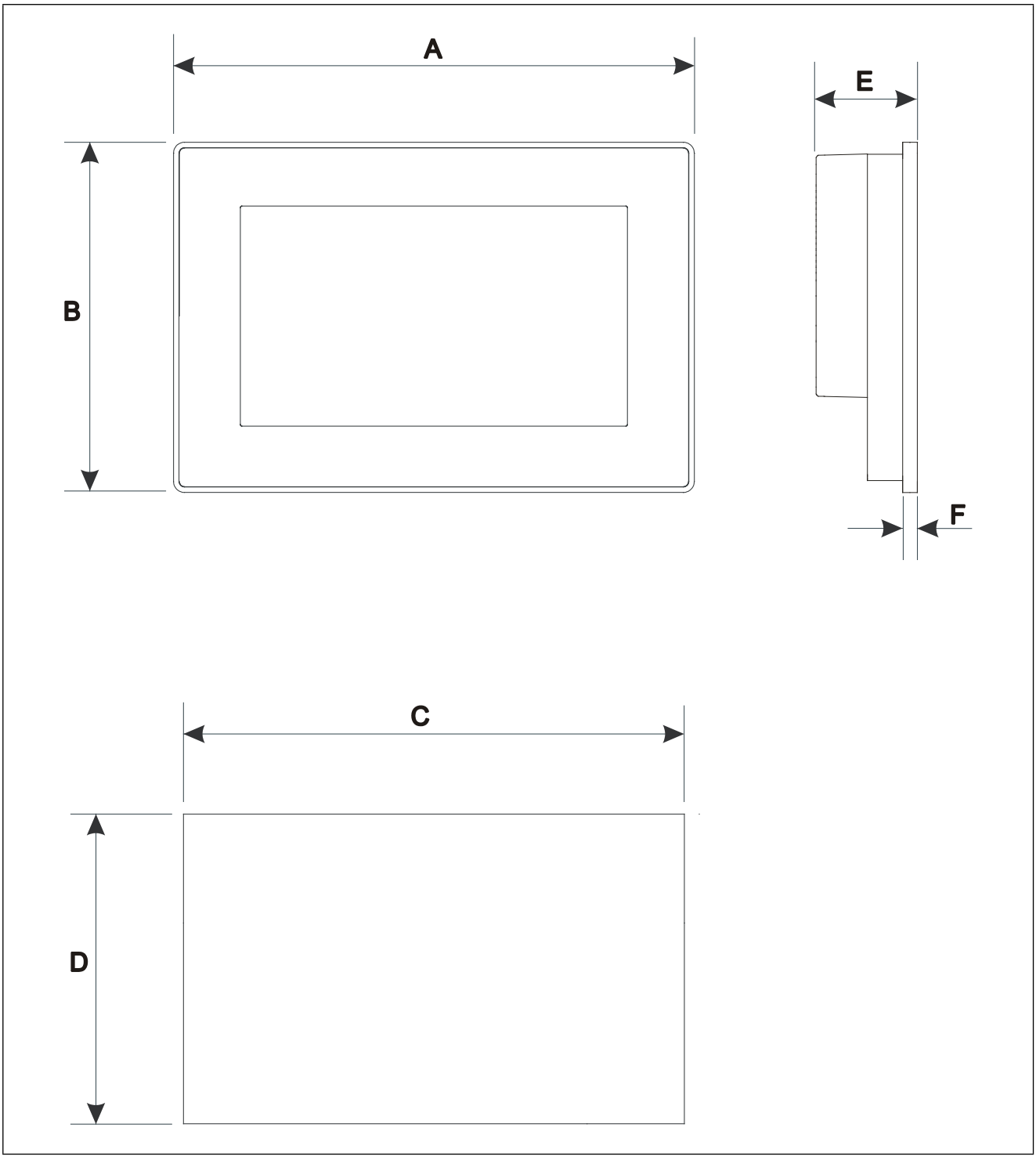
GF_Project supports the programming of the GMation P6 product and comes as a compatible installer for Windows PCs: once installed, it will be possible to install the software licence and use all the intended functionalities Please refer to the GF_Project manual for its use.

2.3.2 System Requirements

	Minimum	Recommended
Operating system	Windows 7 (64 bit)	Windows 10 (64 bit) / Windows 11
Processor	Intel Celeron1.5 GHz	Intel Core i5 2,5 Ghz or higher
RAM	8 GB	16 GB or higher
Free Hard Disk Space	8 GB	16 GB or higher
Graphic resolution	SXGA (1280 x 1024 pixel)	FHD (1920x 1080 pixel)
Ethernet port	1 RJ45	1 RJ45
USB port	1 USB 2.0	1 USB 2.0

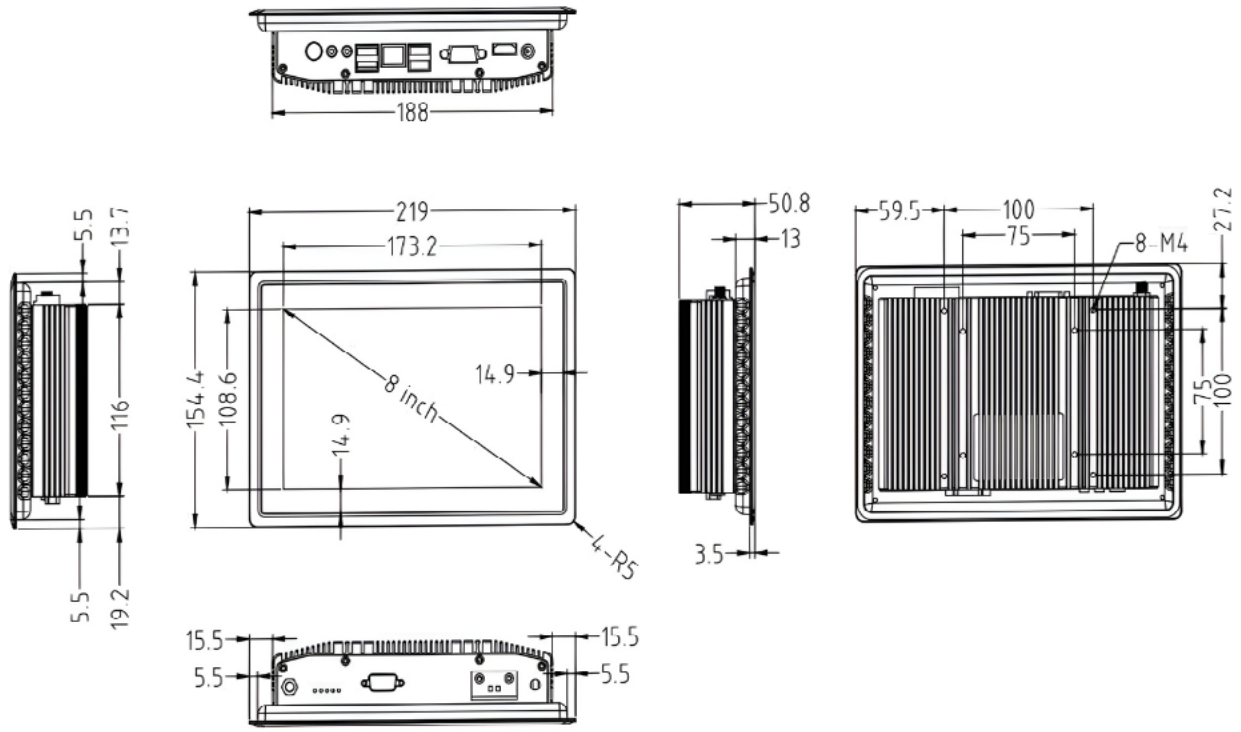
3 TECHNICAL SPECIFICATIONS

3.1 Dimensions



MODEL	A	B	C	D	E	F
G-Mation W55 080-6-00	219 mm/ 8,62”	154,4 mm/ 6,07”	209 mm/8,22”	144,4 mm/5,66”	50,8 mm/2”	3,5 mm/0,13”
G-Mation W55 101-6-00	268 mm/10,55”	188,5 mm/7,42”	258 mm/10,15”	178,5 mm/7,02”	50,8 mm/2”	3,5 mm/0,13”
G-Mation W55 156-6-00	398 mm/15,66”	254 mm/10”	388 mm/15,27”	244 mm/9,60”	51,8 mm/2,03”	3,5 mm/0,13”
G-Mation W55 215-6-00	534 mm/21,02”	327 mm/12,87”	525 mm/20,66”	318 mm/12,52”	50,5 mm/1,98”	3,5 mm/0,13”
G-Mation W55 238-6-00	582 mm/22,91”	356,5 mm/14,03”	572 mm/22,51”	346,5 mm/13,64”	57,8 mm/2,27”	3,5 mm/0,13”

G-Mation W55 080-6-00



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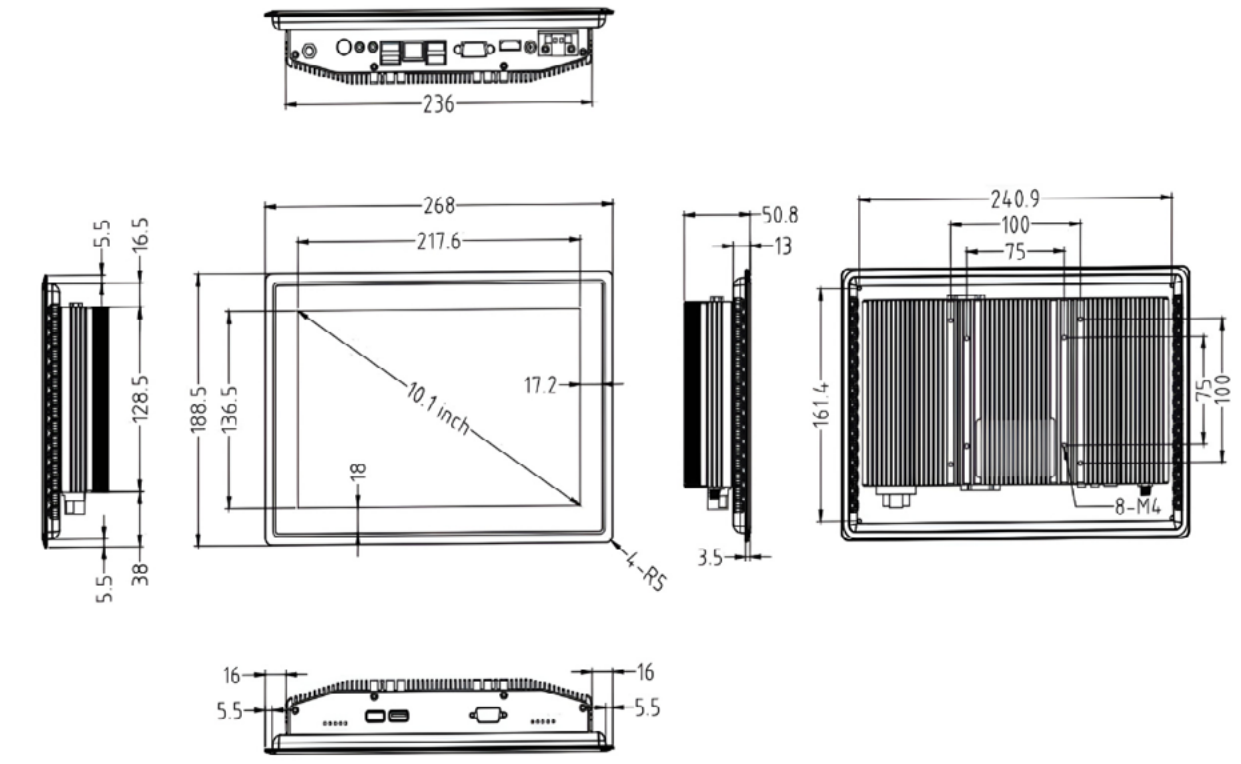
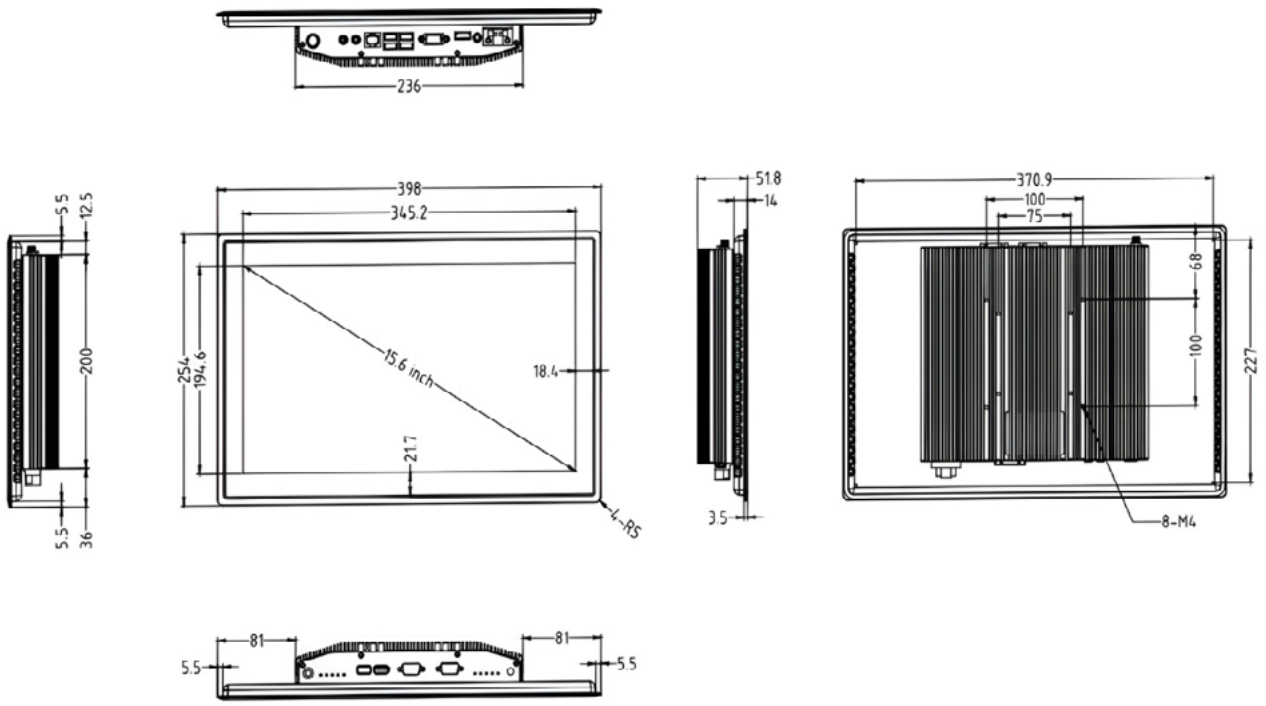


G-Mation W55 156-6-00



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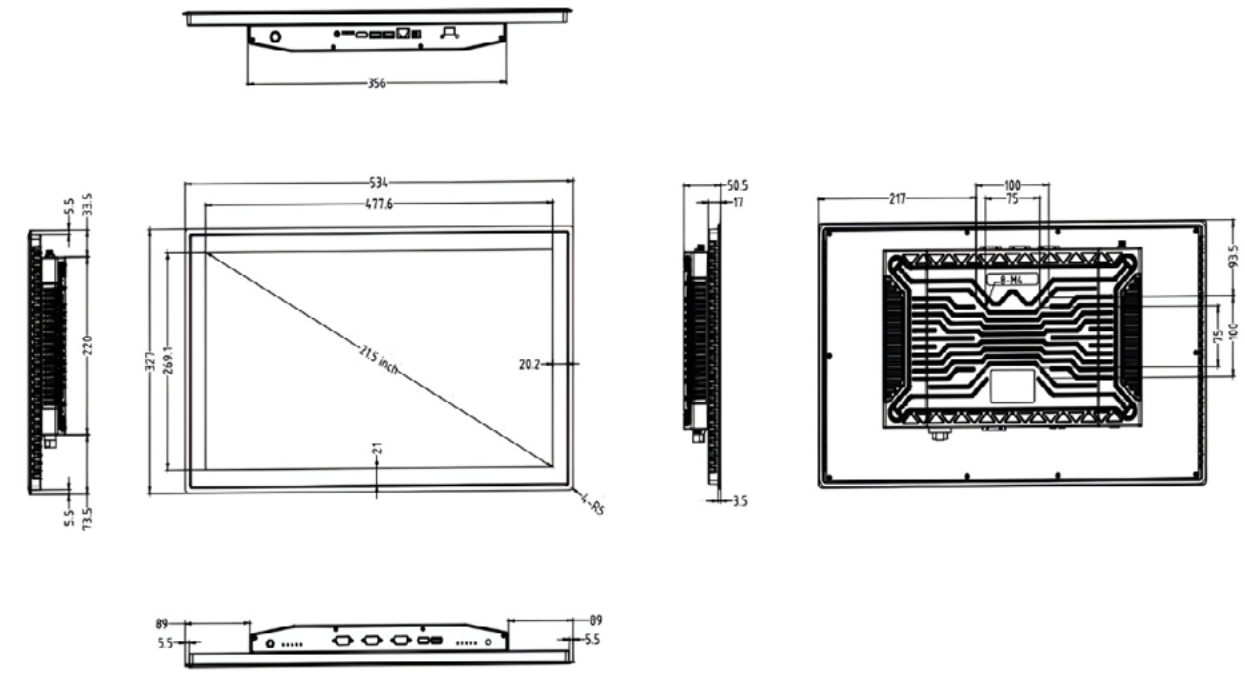

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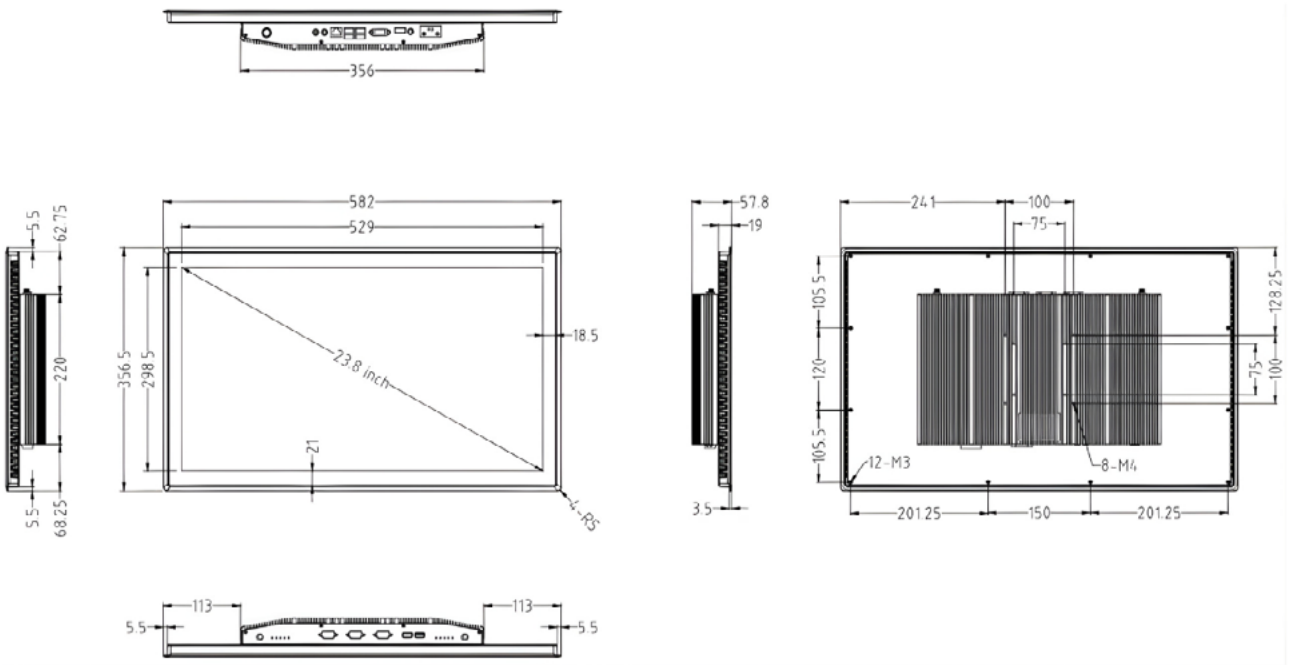
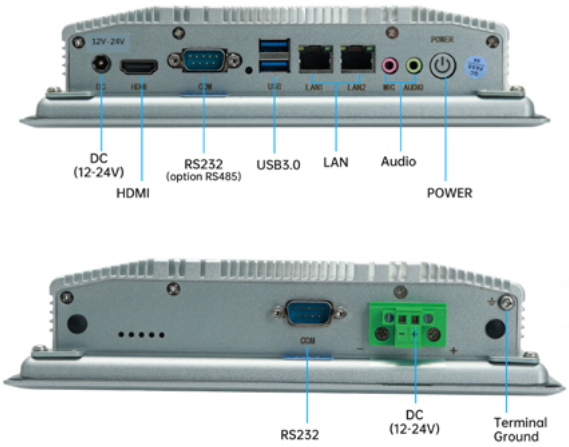


3.2 Technical data

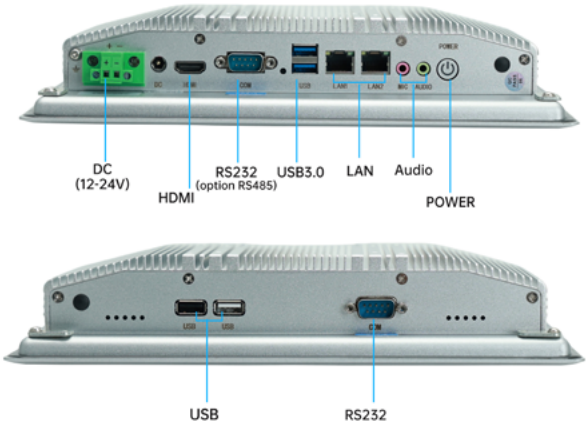
MODELLO	G-Mation W55 080-6-00	G-Mation W55 101-6-00	G-Mation W55 156-6-00	G-Mation W55 215-6-00	G-Mation W55 238-6-00
GENERAL					
PROCESSOR	Intel Celeron J6412				
MEMORY	DDR4-2666 SODIMM 4 GB (base)				
POWER SUPPLY	DC 24 V ±3%;				
MAX CONSUMPTION	19.8W	20.52W	23.5W	36.24W	33.92W
STORAGE	mSATA 128 GB				
INSTALLATION	Flush mounted or Vesa arm				
CHASSIS	aluminum alloy				
AUDIO	HD Audio ALC269				
VIDEO SECTION					
GRAPHICS CHIPSET	Intel UHD Graphics				
DISPLAY	8”, 1280×800, 16:10, 350 cd/m², Contrast ≥ 800:1, 60 Hz,	10,1”, 1280×800, 16:10, 300 cd/m², Contrast ≥ 1000:1, 60 Hz,	15,6”, 1920×1080, 16:9, 300 cd/m², Contrast ≥ 800:1, 60 Hz,	21,5”, 1920×1080, 16:9, 300 cd/m², Contrast ≥ 3000:1, 60 Hz,	23,8”, 1920×1080, 16:9, 350 cd/m², Contrast ≥ 1000:1, 60 Hz,
TOUCH	PCAP, 10 touches				
GLASS	Mohs 7 (explosionproof)				
I/O PORTS					
VIDEO	1× HDMI out				
ETHERNET	2× RJ45 10x100x1000				
USB	2× USB 3.0	2 x USB 2.0 + 2 USB 3.0			
COM	2× RS232				
DC IN	24V (12V-24V)				
DIMENSIONS AND WEIGHT					
DIMENSIONS (L×P×A)	219 × 154,4 × 50,8 mm	268 × 188,5 × 50,8 mm	398 × 254 × 51,8 mm	534 × 327 × 50,5 mm	582 × 356,5 × 57,8 mm
CUT OUT	209 × 144,4 mm	258 × 178,5 mm	388 × 244 mm	525 × 318 mm	572 × 346,5 mm
NET WEIGHT	1,55 kg	1,65 kg	3,86 kg	5,54 kg	7,4 kg
QUALITY					
OPERATING TEMPERATURE	0–50 °C				
STORAGE TEMPERATURE	–5–60 °C				
UMIDITY	10–80% (operation) 10–85% (storage)				
IP PROTECTION	IP65 front, IP20 back				
CERTIFICATIONS	CE/FCC Class B				
OPERATING SYSTEM	Linux				

3.3 Connections

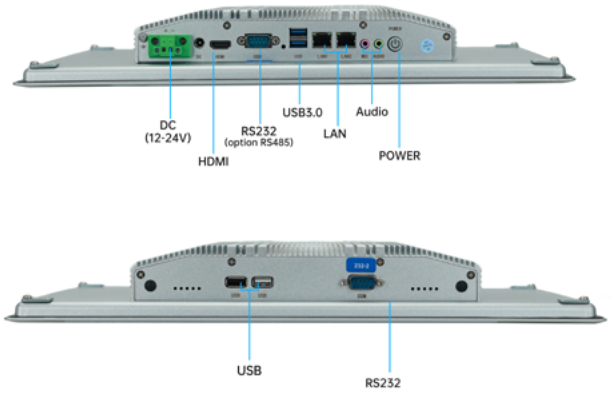
G-Mation W55 080-6-00



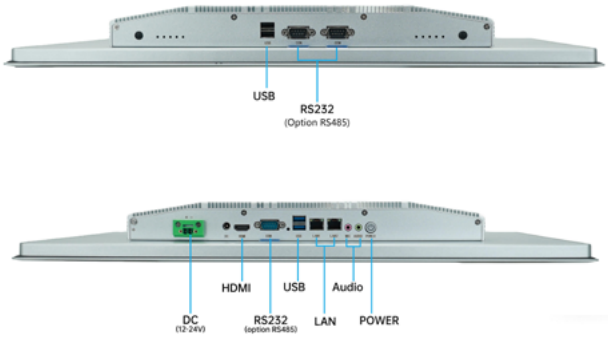
G-Mation W55 101-6-00



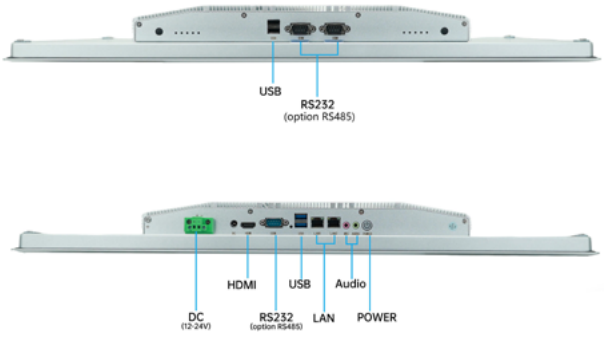
G-Mation W55 156-6-00



G-Mation W55 215-6-00



G-Mation W55 238-6-00



3.3.1 3.3.1 Power supply and grounding

Terminal connector for DC power supply.

- The + and – symbols indicate the correct polarity for connecting +24Vdc and common.
- Connect the ground to the screw near the connector.
- Only use power supplies that comply with the device specifications.

Wire using two conductors with a minimum cross-section of 1.5 mm², minimum conductor temperature 105°C.

DC IN
Additional power input via standard cylindrical connector.

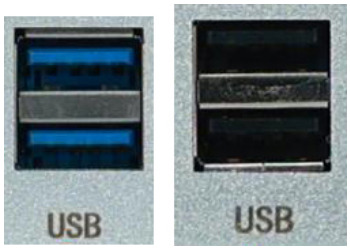
POWER button
System power button.

- Allows the panel PC to be started up.
- Start-up can also be configured to be automatic when the power is turned on.
- The button lights up when the panel is in use

3.3.2 USB

High-speed USB 2.0 and 3.0 ports for connecting external peripherals.

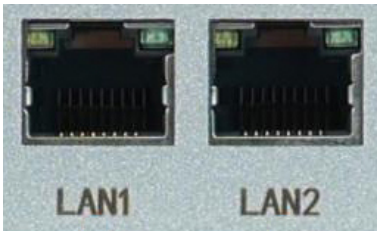
- Suitable for devices such as USB memory sticks, keyboards, mice, scanners or configuration tools.



3.3.3 Ethernet

RJ45 connectors for wired networking.

- Speed **10/100/1000 Mbps.**



- **Pin 1** – TX+ (positive data transmission)
- **Pin 2** – TX– (negative data transmission)
- **Pin 3** – RX+ (positive data reception)
- **Pin 4** – BI_D3+ (bidirectional pair for Gigabit Ethernet)
- **Pin 5** – BI_D3–
- **Pin 6** – RX– (negative data reception)
- **Pin 7** – BI_D4+
- **Pin 8** – BI_D4–

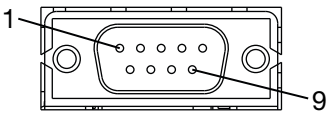
Green Link/Activity LED

- **Steady on:** network connection established.
- **Flashing:** data traffic in progress (TX/RX activity).
- **Off:** no link detected.

Yellow Speed LED

- **Steady:** connessione a **1000 Mbps** (Gigabit).
- **Off: 10/100 Mbps** connection**.**

3.3.4 Serial ports



RS-232		RS-422, RS-485	
Pin	**Description**	**Pin**	**Description**
1	DCD	1	CHA-
2	RXD	2	CHA+
3	TXD	3	
4	DTR	4	
5	GND	5	GND
6	DSR	6	
7	RTS	7	
8	CTS	8	
9	RI	9	

The communication cable must be selected according to the type of device to be connected.

3.3.5 HDMI

Digital video port compliant with the HDMI standard.

- Allows connection to external monitors or displays.
- Supports simultaneous transmission of video and audio signals.
- The maximum supported resolution depends on the system's graphics configuration.

3.3.6 Audio IN (MIC)

3.5 mm mini-jack connector for analogue audio input.

- Used for external microphones or devices that send audio signals.

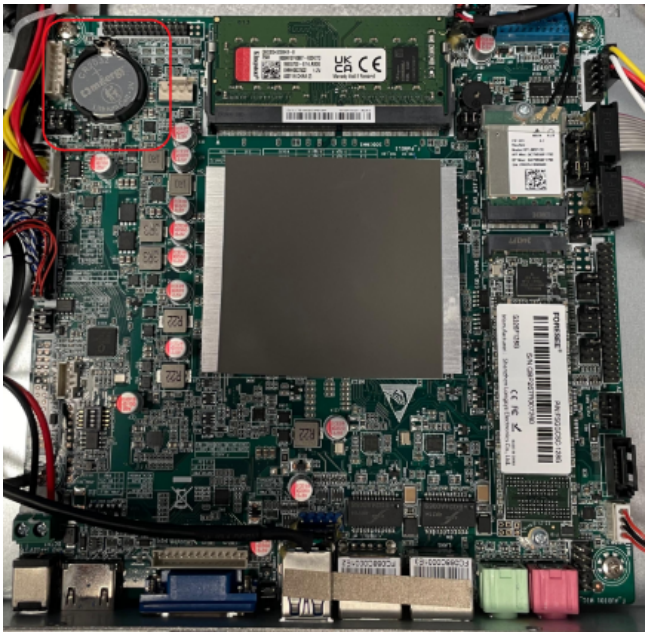
3.3.7 Audio OUT

3.5 mm mini-jack connector for audio output.

- Allows connection of headphones or speakers.

3.4 Battery

These devices are equipped with a lithium battery that cannot be replaced by the user.
The CMOS battery (**CR2032)** provides backup power to the **RTC** (Real-Time Clock) and the C**MOS memory** of the motherboard when the device is turned off or disconnected from the mains.
Its function is to keep the date and time active and preserve the fundamental parameters of the BIOS/ UEFI (hardware configurations, boot priorities, system settings), preventing the loss of configurations at each restart
.



CAUTION
Dispose of batteries in accordance with local regulations.

WARNING
This device cannot be disposed of as household waste but must be disposed of in accordance with European Directive WEEE 2012/19/ EU.

3.5 Assembly and installation

3.5.1 Installation environment

Avoid prolonged exposure to direct sunlight, which could cause the device to overheat.
The equipment is not intended for installation in contact with corrosive chemical compounds. Check the resistance of the front panel to a specific compound before installation.
Do not use any tools (screwdrivers, etc.) to operate the panel's touch screen.
To meet the front panel protection ratings, a correct installation procedure must be followed:

- the edges of the cut-out must be flat
- tighten each fixing screw until the corner of the frame comes into contact with the panel.
- the opening for the panel must be the size indicated in this manual.

3.5.2 Safety instructions

For all installation notes, refer to the Installation Guide supplied with the product.

3.5.3 Installation procedure

To proceed with panel mounting installation, follow these instructions:

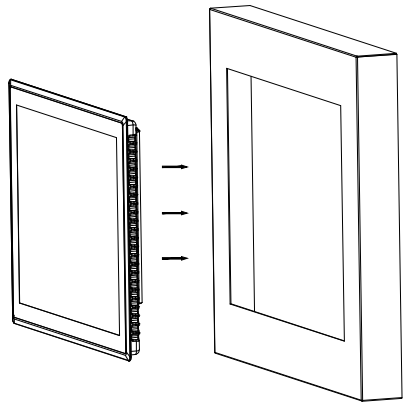
1 Preparing the panel

- Check that the installation panel has an opening that complies with the dimensions required by the product.
- Check the thickness of the panel to ensure that it falls within the limits supported by the fixing system

2. Inserting the panel PC into the opening

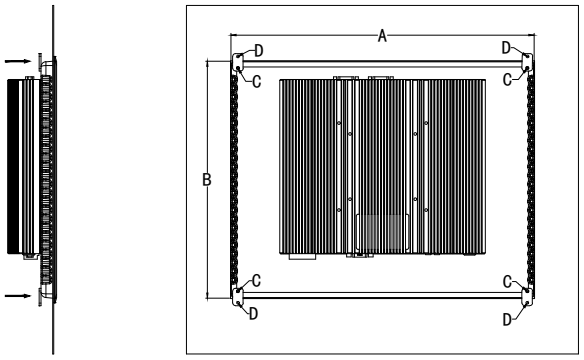
- Position the panel PC at the front of the panel and insert it into the opening.

Ensure that the front frame adheres correctly to the outer surface.



3 Installing the fixing brackets

- Insert the side brackets into the designated points on the back of the panel PC.
- Screw the screws into the brackets without tightening them completely.
- The images show the correct positioning: the bracket must rest on the back of the panel and the screw must pull the bracket towards the body of the PC.



4. Final tightening

- Tighten the screws evenly on all sides
- Tighten gradually and alternately to ensure even pressure.
- Do not exceed the tightening torque to avoid deformation of the panel or device frame

5. Final check

- Check that the panel PC is securely fastened and perfectly flush with the front side.
- Ensure that there is no mechanical play and that the seal is correctly compressed.

3.5.4 Special instructions for use

--The equipment must only be used in an area with a pollution degree not exceeding 2, as defined in standard IEC/EN 60664-1.

- The equipment must be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with IEC/EN 60079-15.

- Transient protection must be provided, set at a level not exceeding 140% of the nominal peak voltage value at the equipment's power supply terminals.

- Install the HMI device according to the installation instructions provided with it.

- Earthed the HMI device according to the installation instructions provided with it.

- Only qualified personnel may install the HMI device or carry out repairs.

- Ensure that the ventilation holes are not covered.

- Take care to avoid the formation of dust layers on the graphic panel, which could cause the accumulation of static charges. Keep the operator panel screen clean: the equipment must only be cleaned with a soft cloth and neutral soap. Do not use solvents.

- This device must not be used for purposes and in ways other than those indicated in this document and in the documentation accompanying the product

4 CYBER SECURITY

The integration of IT (Information Technology) cybersecurity principles into OT (Operational Technology) systems is essential to protect programmable automation controllers (PLCs) from increasingly sophisticated threats. This chapter provides high-level overviews of best practices for securing OT networks, drawing on standards such as IEC 62443 and established architectures.
For more detailed and specific information Gefran's GMation automation platform, please refer to the online documentation at https://wiki.gefran.com/wiki/g-mation-eng/ or scan the QR Code

4.1. Risk assessment

Risk assessment is the starting point for protect an OT system.
It serves to identify vulnerabilities, estimate the possible damage of an attack and define priorities for action. A continuous assessment allows defences to be adapted to new threats.
It is the responsibility of end user of the machine or plant to determine the level of safety required by its industrial application. In particular, the risk assessment must be carried out according to the criticality of the industrial process in question.
In the assessment, the following must be evaluated:

- **PLC and connected devices:** Configurations, firmware, services and software in use.
- **OT network:** Topology, segregation (e.g. firewall, VLAN), entry and exit points.
- **Interfaces with IT and third parties:** Connections with corporate networks and suppliers, Cloud applications.
- **Operational processes:** Access, backup and incident response policies.

(the list identifies the main elements of an industrial application, but it is not necessarily exhaustive)

The procedure can be summarised in these points:

1. **Inventory**: Create a list of hardware and software assets.
2. **Analysis**: Identifying vulnerabilities and potential threats.
3. **Risk assessment**: Estimating the probability and the impact of threats.
4. **Action Plan**: Implement countermeasures and priorities for critical areas.
5. **Monitoring**: Repeat the assessment regularly to ensure continuous updating.

4.2 Network segregation

The segregation of networks is essential to contain threats and protect OT systems. IEC 62443 promotes the 'zones and conduits' model, which divides the network into segments with defined security levels and strictly controls the traffic between them. Some basic concepts:

- **Creation of security zones:**
  dividing the OT network into isolated segments, each with a specific level of protection based on the criticality of the processes and devices included.
  For example, devices with critical and closely interconnected functions, such as PLCs, Edge Controllers and HMIs, should be placed in areas of equal security or grouped in the same area to ensure uniform protection. Communications between these zones and others (e.g. company servers or less critical devices) must be via secure conduits.
- **Conduits**:
  The conduits act as controlled communication channels between zones, implementing firewalls, gateways and other solutions to limit access and the type of traffic allowed.

Advice on how to proceed:

1. **Isolating OT networks from IT networks:**
2. Limit direct connections and use a DMZ (Demilitarised Zone) as a buffer between the two.
3. Segmenting within the OT network: - Create VLANs or use internal firewalls to separating critical processes.
   - Limiting traffic between segments to only necessary communications.
4. Strict control of access points:
   - Minimise the number of inputs into the OT network.
   - Implement authentication and monitoring mechanisms for each remote access.

The segregation of networks ensures that any attack or malfunctioning remains confined to a specific area, reducing the risk of large-scale disruptions.

4.3 Network Security

- **Activate Firewalls with customised rules:** Block all communication and allow only traffic necessary for operations
- **Keeping VPNs up-to-date:** Ensuring secure remote access.
- **Equip themselves with IDS (Intrusion Detection System) or IPS IDS (Intrusion Prevention System):** Install software in company servers or insert dedicated HW devices to detect and block malicious traffic specific to control systems.

4.4 User Management

- **Stratification and diversification of roles** Implement an access hierarchy based on the principle of least privilege, limiting authorisations to only those activities that are essential for each user or device.
- **Credentials Management** Use complex and regularly updated passwords. Avoid generic accounts and prefer named accounts with secure authentication.

4.5 Training and Awareness:

- **Continuous training**: Ensure that staff are adequately trained in cybersecurity practices and updated on new threats.
- **Threat Awareness:** Promoting a culture of safety within of the organisation, making all employees aware of risks and good safety practices.

4.6 Protection of devices

- **PLC hardening:** Disable unnecessary ports and services.
- **Regular updates:** Apply security patches to devices and software.
- **Physical protection:** Place the devices in closed and protected cabinets.

4.7 Data confidentiality and integrity

- **Confidentiality:** Before decommissioning a device, be sure to securely erase all data.
- **Integrity:** Verify the authenticity of configuration files by means of hashes or digital signatures..

4.8 Managing malfunctions or persistent attacks

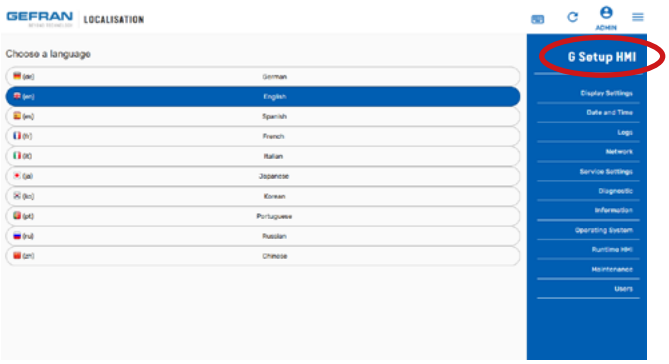
- Implement incident response plans that include rapid system recovery.
- Continuously monitor the network abnormal activity.
- Regularly test backup and recovery procedures..

5 SOFTWARE

5.1 G-Setup

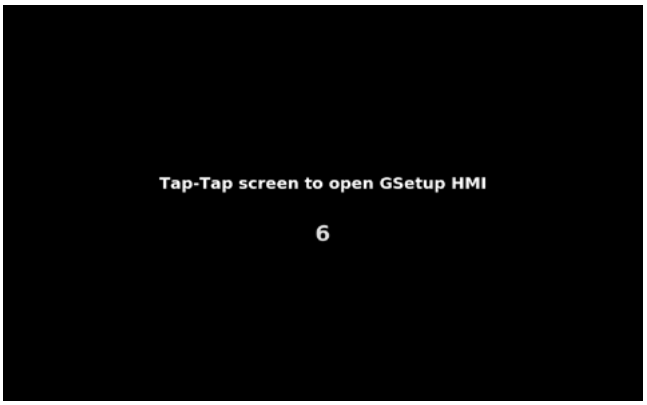
G-Mation W55 browser panels come with a configuration web server accessible at port 80 of the panel's IP address or directly via the screen.
The interface is very similar to the G-Mation P6 configuration web server:

You can check which web server you are working on at any time by looking at the title at the top of the blue bar on the right:



5.1.1 Accessing G-Setup

To access G-Setup (the system configuration web server) via the screen, tap the screen several times when this message is displayed during start-up

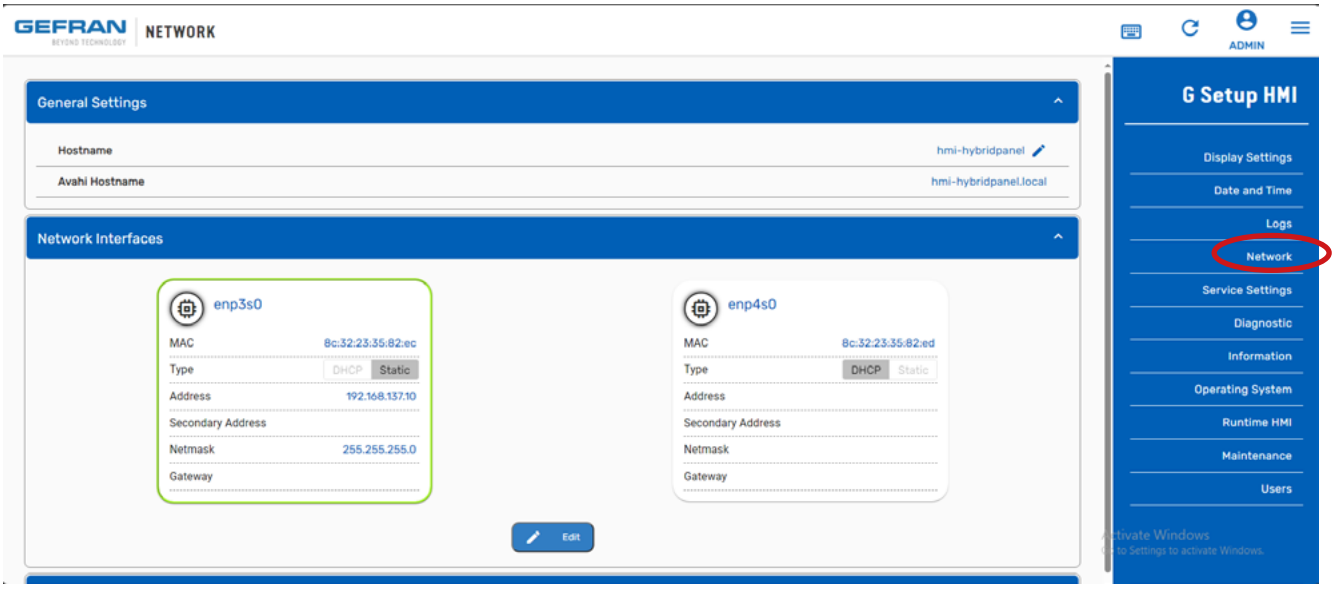


When the panel is turned on, you can access it via the taskbar.
To access, enter your username and password and press "Login".

5.2 Commissioning

5.2.1 Network

After accessing G-Setup, the first thing to do is set the IP address in the “Network” section”

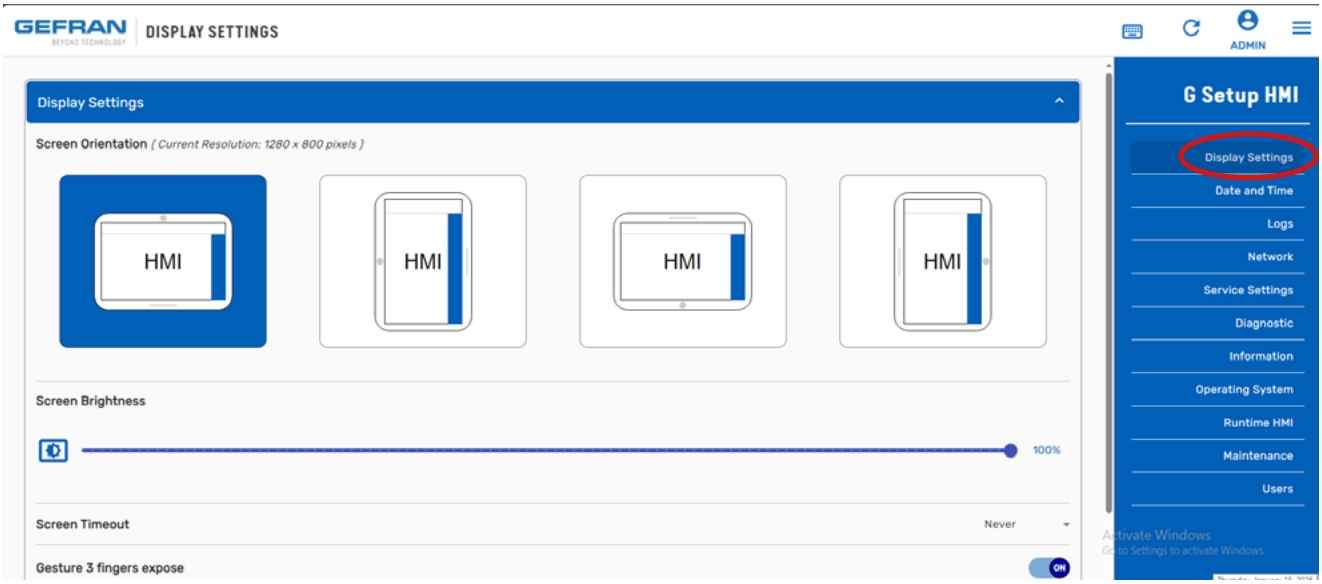


Click on the “Edit” button and edit the parameters of the network card chosen for communication

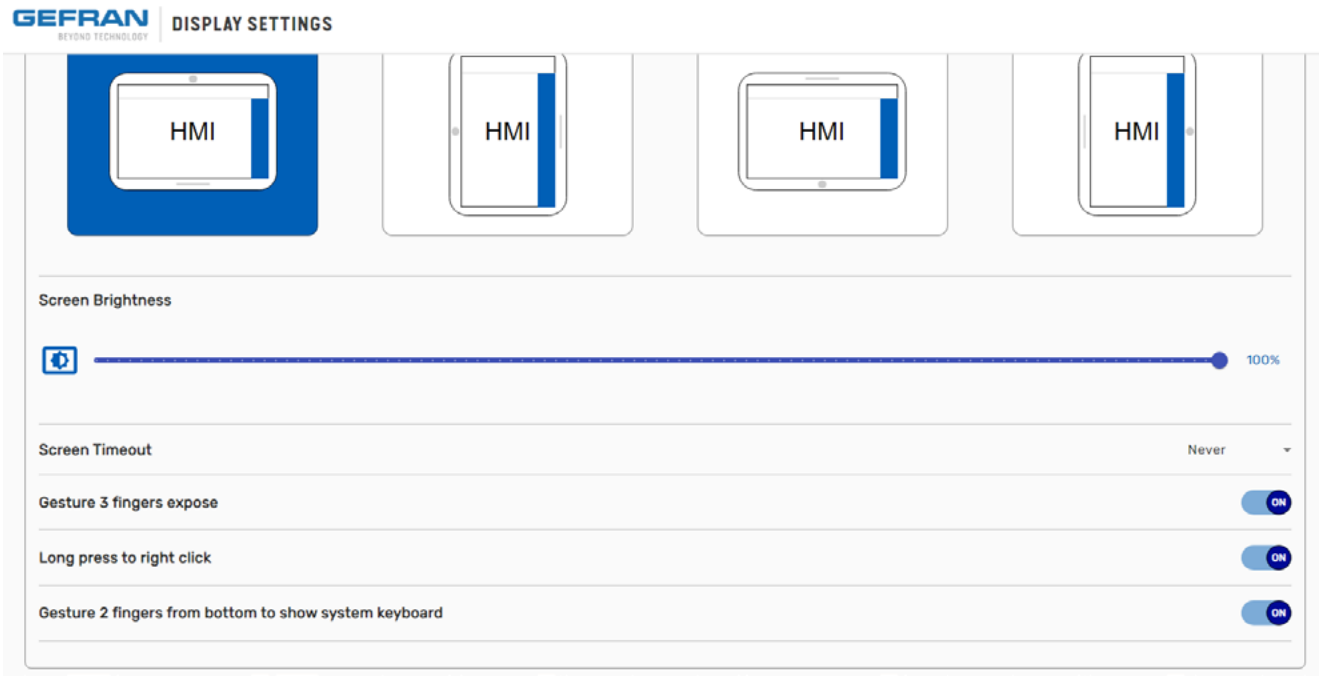
Finish by clicking on “Save”

5.2.2 Display settings

In the **“Display settings”** tab**, you can choose the screen orientation.**



Other important settings are available at the bottom of the same page



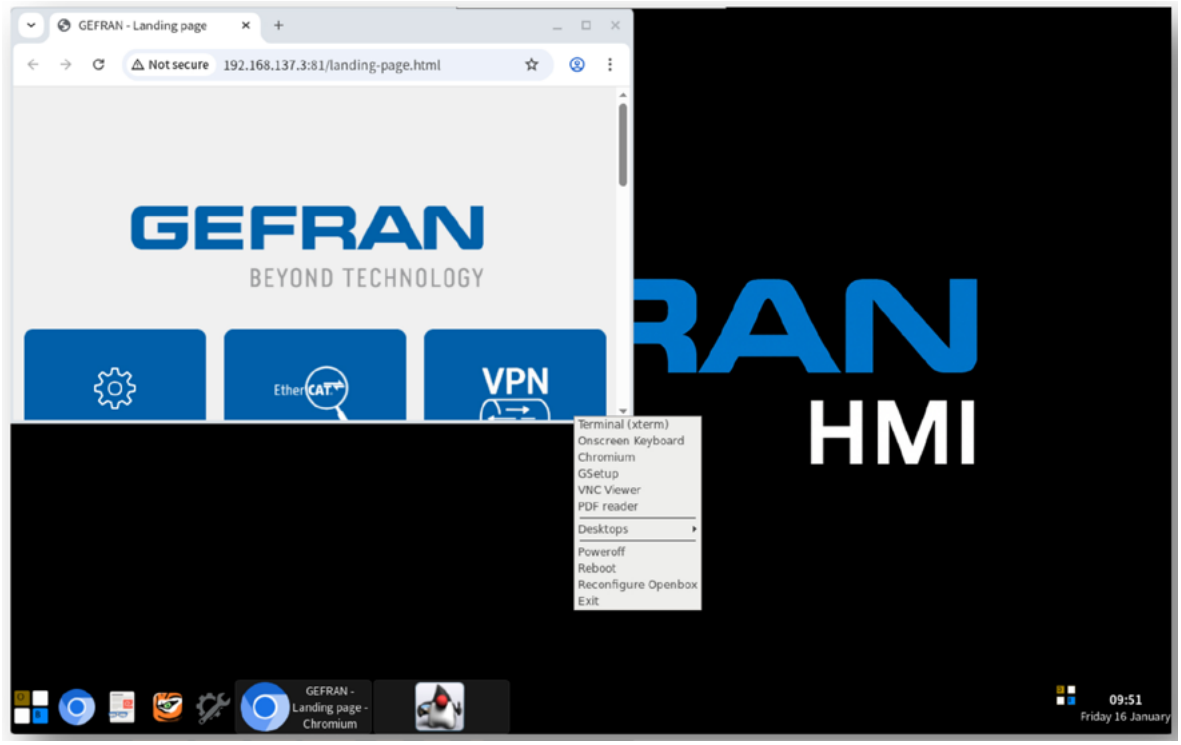
5.2.2.1 “3-finger expose gesture”

Allows you to enable “on-the-fly” change management of the foreground application.
Briefly dragging three fingers across the screen will display thumbnails of active applications

Clicking on the image of the desired application will bring it to the foreground
This allows you to easily switch between applications (e.g. Chromium browser, Java HMI application, PDF viewer)

5.2.2.2 “Long press to right click”

Enables the right mouse button click function when the touchscreen is pressed and held in the same spot (e.g. to open a context menu)



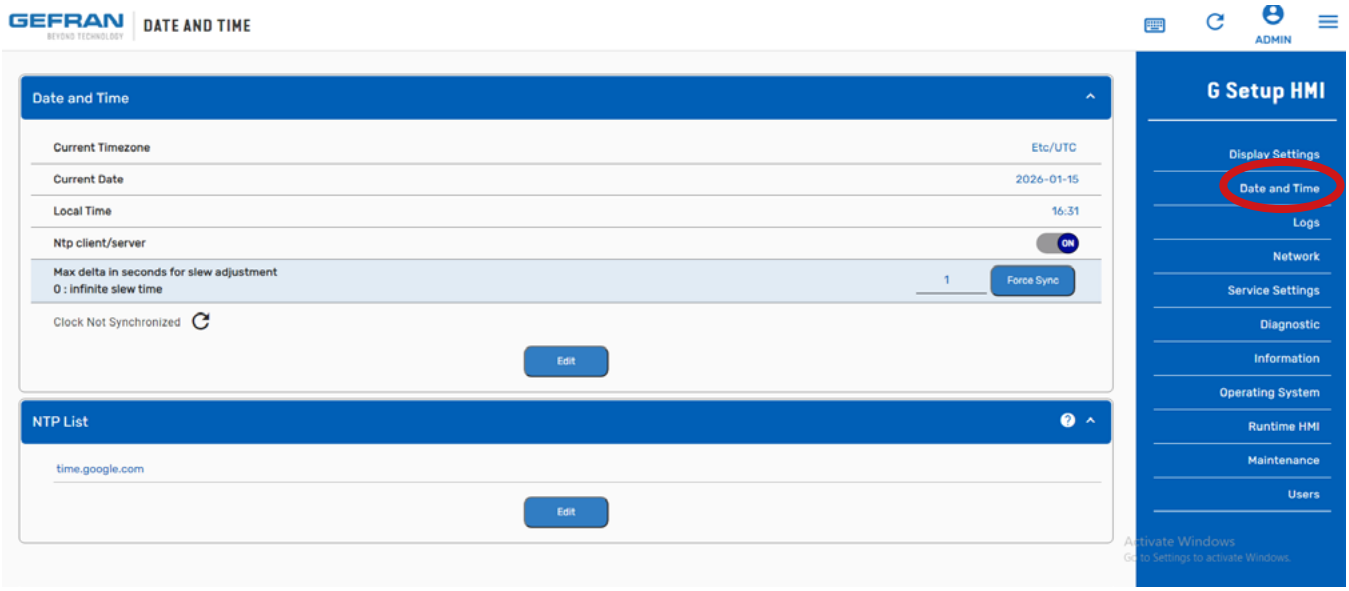
5.2.2.3 “Gesture 2 fingers from bottom to show system keyboard“

Enable the two-finger gesture simultaneously from bottom to top

to display the system keyboard
Even when the panel is in vertical or upside-down orientation, the edge to use remains the one with the Gefran logo .

5.2.3 Date and Time

In the **“Date and Time”** tab, you need to configure the current date and time and the current time zone.



The panel can also receive the date and time automatically from an NTP server or from the G-Mation P6 CPU by simply enabling the function and entering the server address in the “NTP List” area.

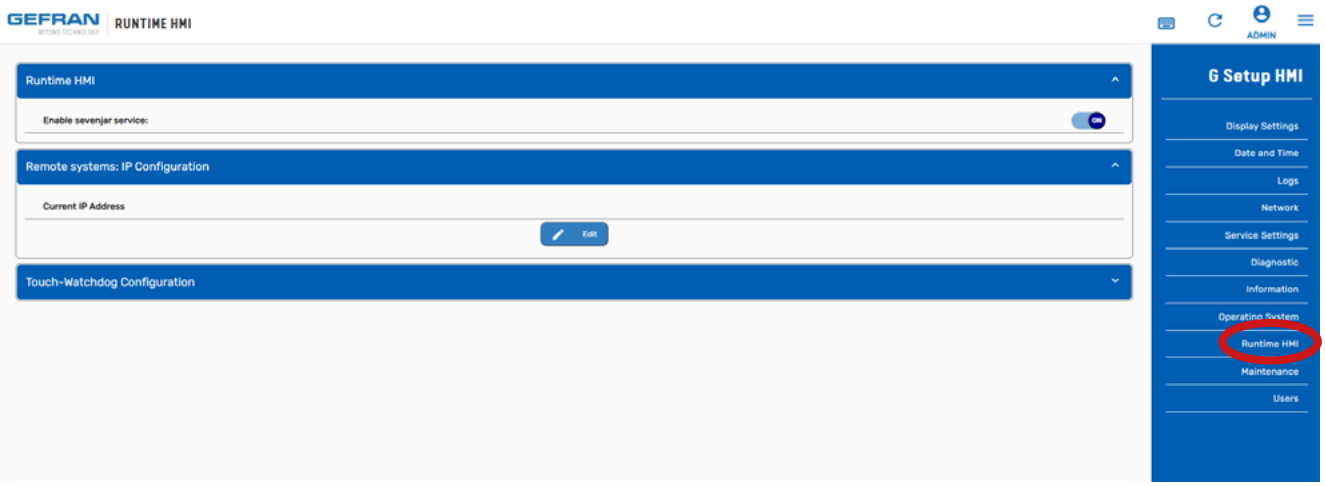
5.2.4 Java, Web, Mixed operating modes

G-Mation W55 browser panels can operate in several modes:

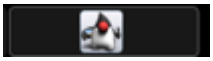
- Java only
- Full web
- Mixed

5.2.4.1 Java only

The panel's BSP contains a Java Virtual Machine capable of executing pages developed in previous versions of GF Project.
The JVM is enabled in the **"Runtime HMI"** section of G-Setup under **"Enable sevenjar service"**.



When enabled, the panel displays this icon in the taskbar

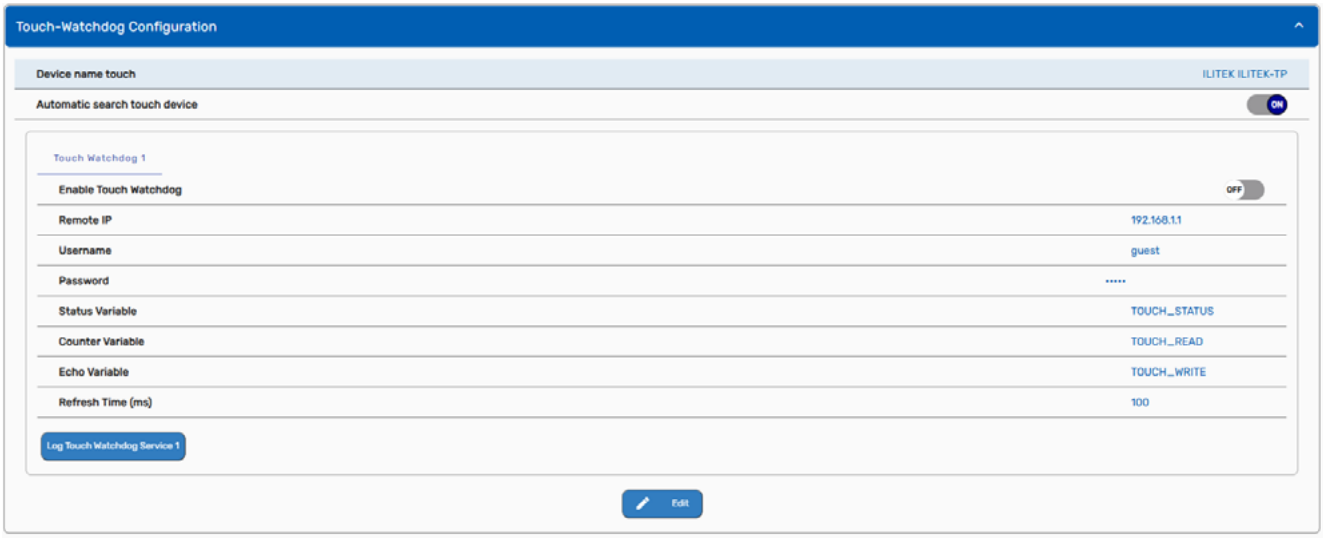


Before the application is downloaded from the development environment, the panel waits with this screen

If the application has been downloaded to the panel, it will run in full screen mode.
With the "3 fingers" gesture, you can switch between applications (e.g. PDF reader or browser).

In the “Remote systems” section, you can set the IP address of remote systems (see GF Project manual).

In the **“Touch-Watchdog”** section, you can configure the watchdog functionality of the HMI application



Full Java mode can be enabled by disabling the automatic start-up of the web browser (cfr “5.2.4.2 Full Web”). The browser panel can only be started on request.

5.2.4.2 Full Web

The browser panel can automatically launch the web browser in full screen mode at start-up, pointing to a predefined web page.
To enable this, go to the “Service Settings” page and select the “web browser” setting

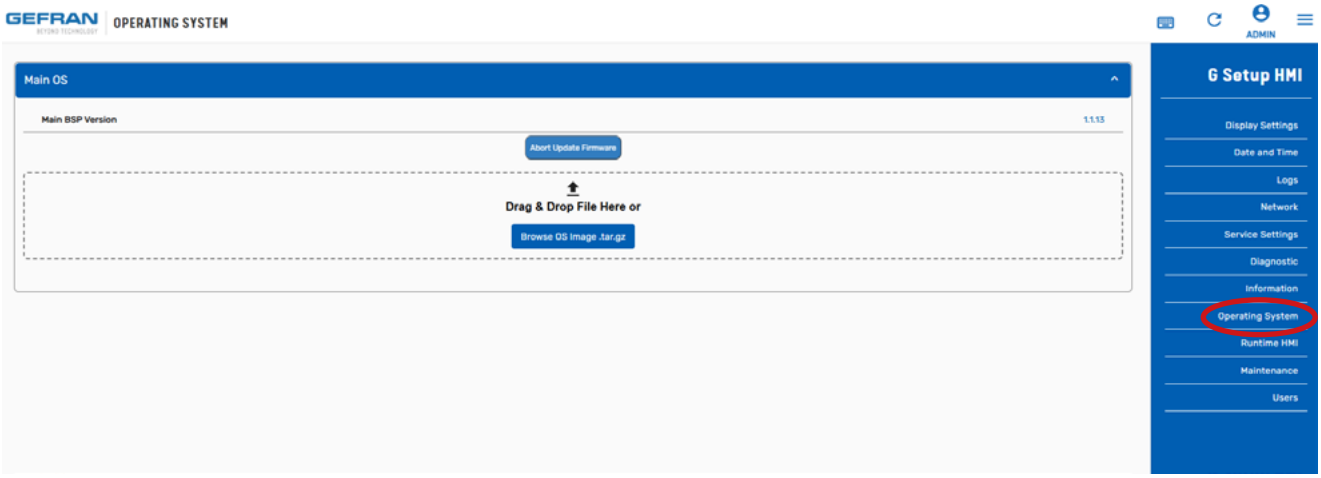
Set the desired home page and press “Save”

5.2.4.3 Mixed

The panel can work in mixed mode. If automatic full-screen browser launch has been enabled and Java has also been enabled, the panel will immediately display the browser at start-up and then give priority to the Java application. If the Java application remains in the background, it will be brought to the foreground in the event of error messages in any case
.

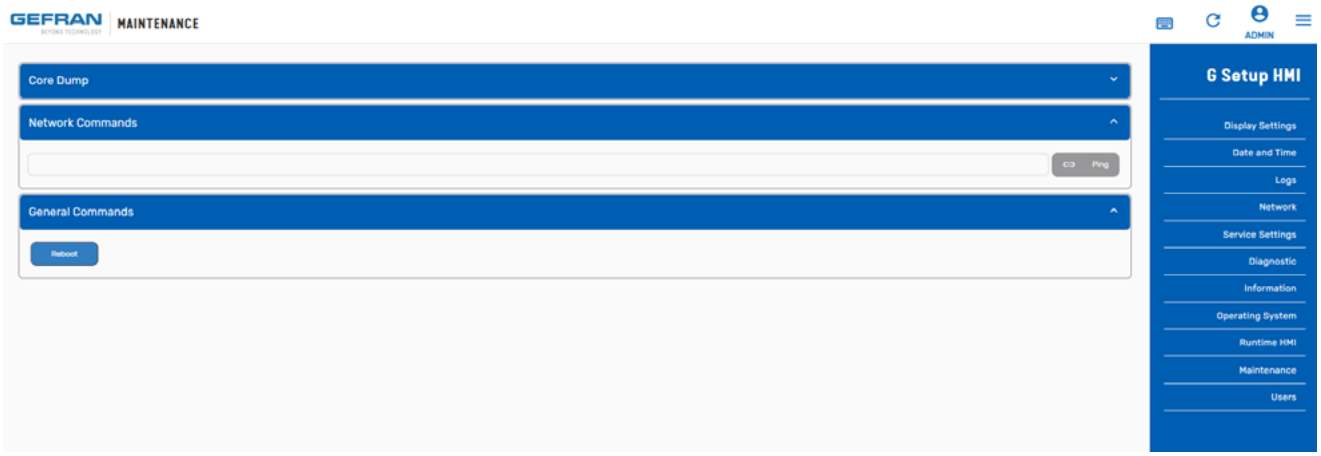
5.3 BSP update

In the **“Operating system”** tab, you can update the panel’s BSP simply by dragging the file into the browser.

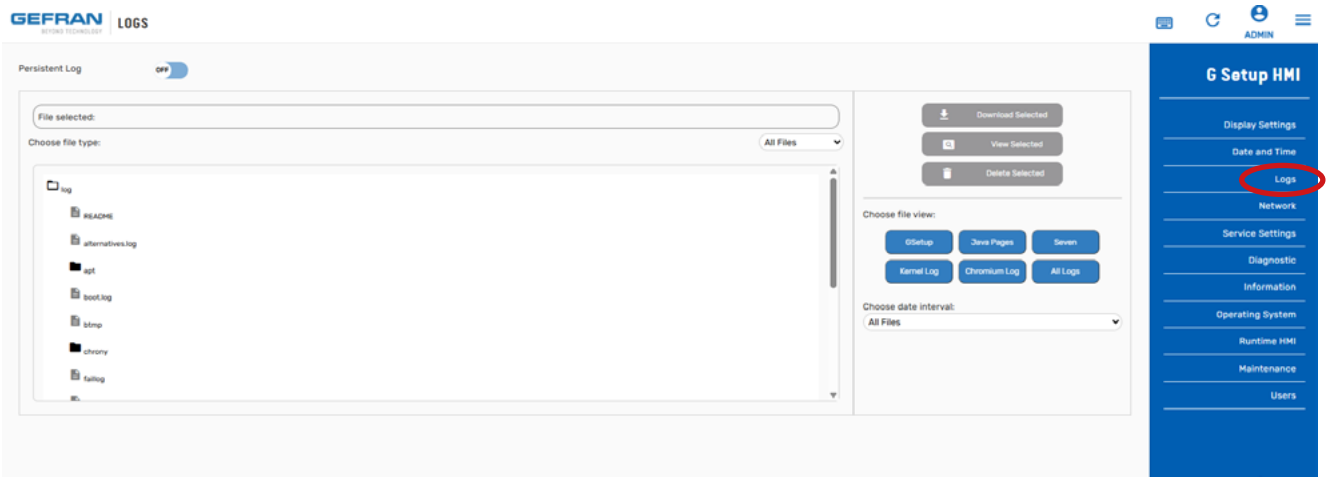


5.4 Maintenance and diagnostics

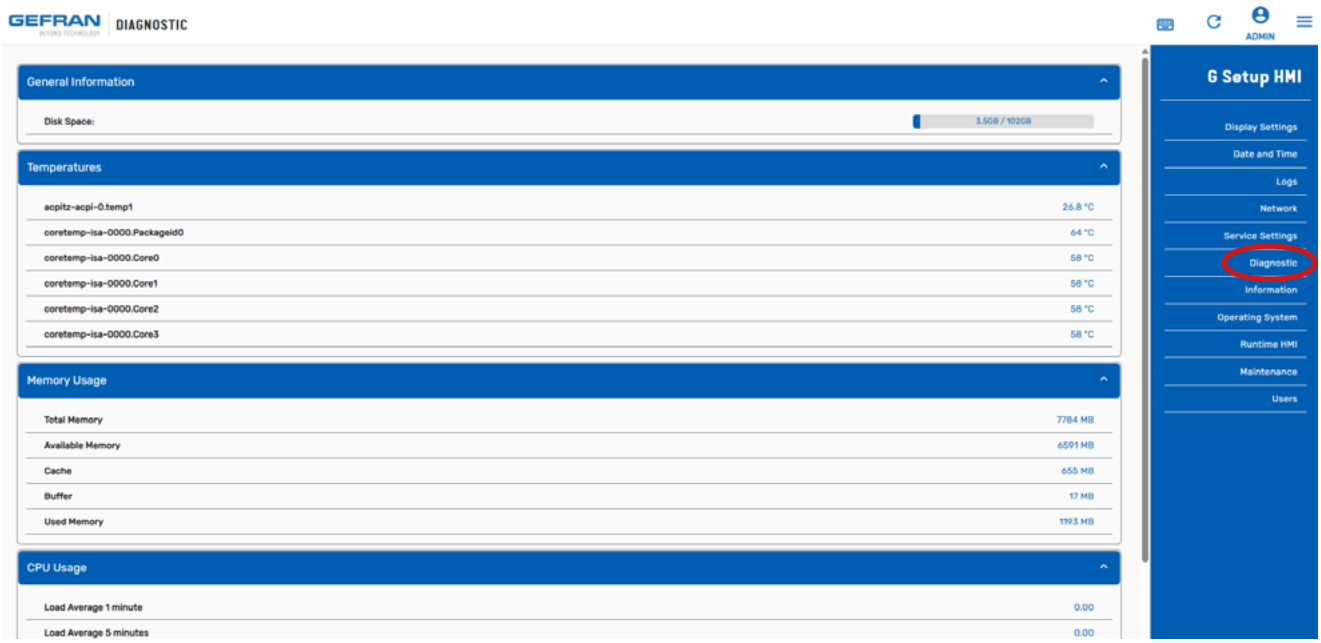
In the **“Maintenance”** tab, you can retrieve core dump data in the event of a crash and ping to check the connection of other devices on the machine network, even remotely



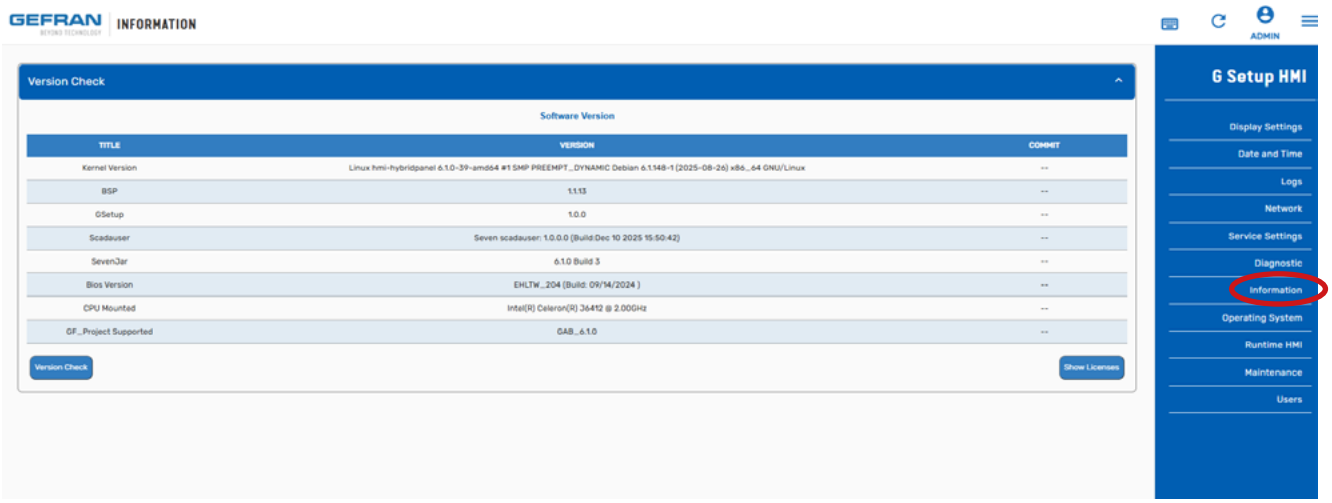
In the **“Logs”** tab, you can view and download all system logs



In the **“Diagnostic”** tab, you can access the CPU’s diagnostic data



In the **“Information”** tab, you can check all versions of installed SW packages with their Open Source licences



5.5 More info on G-Setup items

For further information, please refer to the online guide at https://wiki.gefran.com/wiki/g-mation-ita/ or scan the QR Code

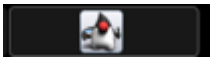
5.6 Application bar

If there are no full-screen windows, the W55 display shows this status bar at the bottom

The bar is created with tint2
At the bottom right are the date and time and a button to call up the system keyboard, which can also be found in the application bar.

In the application bar on the left:

	These buttons allow you to call up the keyboard
	This button brings up the Chromium browser
	This button opens the PDF viewer
	This button opens the VNC client
	This button opens G-Setup

 This icon in the bar indicates that a Java VM application is running.

If Java VM has been enabled and no application project has been downloaded yet, only a box appears in the top left corner

5.7 System keyboard

Web and Java applications can have their own keyboard. G-Setup, for example, has this

However, if necessary, you can call up the system keyboard

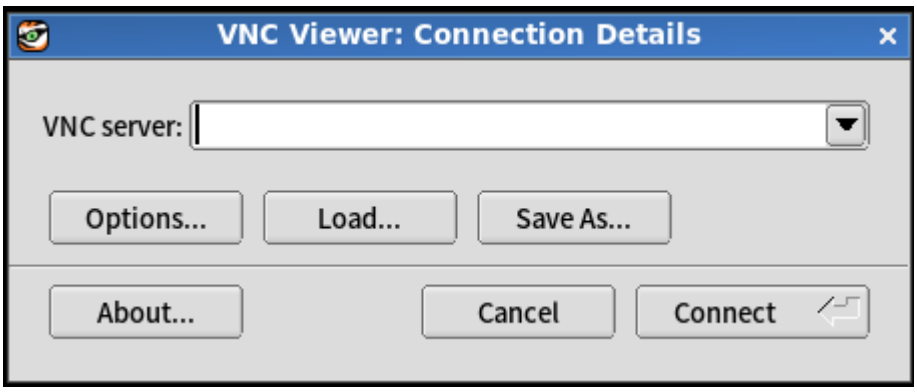
using the keys  in the application bar or by swiping two fingers from the outside inwards the bottom edge of the horizontal panel

.

If you are using the panel vertically or upside down, the edge to use is still the one with the Gefran logo

5.8 VNC Viewer

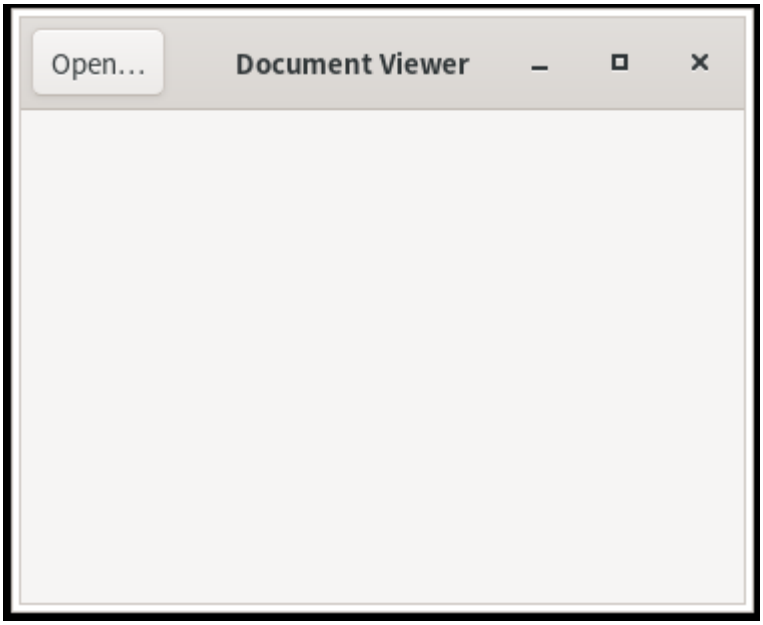
The VNC Viewer utility can be called up from within the Java application, but it can also be used as a stand-alone application by calling it up from the taskbar



To use it, simply enter the VNC server address in the bar that appears and click “connect”. For further information, please refer to the manufacturer’s website https://tigervnc.org/

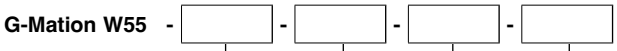
5.9 PDF Viewer

The PDF Viewer utility can be launched from within the Java application, but can also be used stand-alone by clicking on the application bar



To use it, simply press “open” and search the folders for the document you want to view. For further information, please refer to the manufacturer’s website Evince https://wiki.gnome.org/Apps/Evince

6 ORDER CODES



Model	
IP 65 Front, IP20 Back Flush Mounted Power supply wired 24 Vdc	**5**

TBD	
00	TBD

Display size	
Display 8,0” TFT 16:10 - 16M colors Resolution 1280x800	**080**
Display 10,1” TFT 16:10 - 16M colors Resolution 1280x800	**101**
Display 15,6 TFT 16:9 - 16M colors Resolution 1920x1080	**156**
Display 21,5” TFT 16:9 - 16M colors Resolution 1920x1080	**215**
Display 23,8” TFT 16:9 - 16M colors Resolution 1920x1080	**238**

CPU	
Intel® Celeron Quad Core J6412	**6**

Order codes	
F101829	G-Mation W55 080-6-00
F101830	G-Mation W55 101-6-00
F101831	G-Mation W55 156-6-00
F101832	G-Mation W55 215-6-00
F101833	G-Mation W55 238-6-00

7 MARKING

The product can be identified by a label on the back of the device. You need to know the type
of unit you are using in order to correctly use the information contained in this guide.

An example of this label is shown in the following figure:
Note: The label **G-Mation W55 080-6-00** is used as an example for the W55 series

Product model name	G-Mation W55
080-6-00 Code:	F101829
Power supply	24Vdc – 19.8W
Year/week of manufacture	2549
MAT	25491234
Serial number	TD156E641220241116002
Manufacturer’s address	Gefran SPA Via Sebina 74 25050 Provaglio D’Iseo (Bs) - Italia

8 CERTIFICATIONS

The products have been designed for use in industrial environments in accordance with EMC Directive 2014/30/EU. The products have been designed in accordance with:

CISPR 32:2015 + AMD1
CISPR 35:2016

IEC 61000-3-3:2018 + AMD1 + AMD2 IEC
61000-3-3:2013 + AMD1 + AMD2

EN 55032:2015 + AMD1 EN
55035:2017 + AMD1

EN IEC 61000-3-2:2019 + AMD1 + AMD2 EN
61000-3-3:2013 + AMD1 + AMD2

The products comply with the RoHS (Restriction of Hazardous Substances) Directive 2011/65/EU on the use of certain hazardous substances

In compliance with the above regulations, the products are CE marked
.

9 DISPOSAL

The product must be disposed of in accordance with the regulations in force.
Some of the components used in the devices can cause damage to the environment if incorrectly disposed.

Pursuant to art. 26 of Legislative Decree 14 March 2014, no. 49 “Implementation of Directive 2012/19/EU on waste from electrical and electronic equipment (WEEE)”.

The symbol showing a crossed-out wheeled bin on equipment or its packaging indicates that the product must be collected separately from other waste at the end of its useful life.

By collecting the disused equipment separately, it can be recycled, treated or disposed of in an environmentally friendly manner, thus helping to prevent the environment and public health from being affected negatively and enabling reuse and/or recycling of the materials forming the equipment.

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