

# HMIc - IPC Display and Control

## HMIc - IPC Display and Control



**GEFRAN**

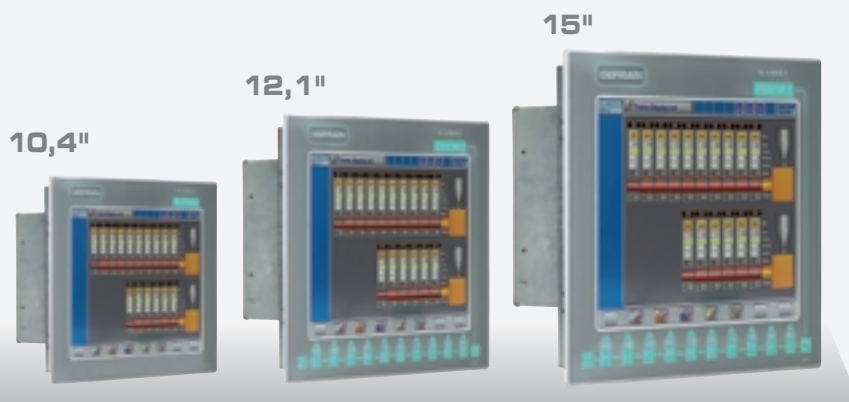
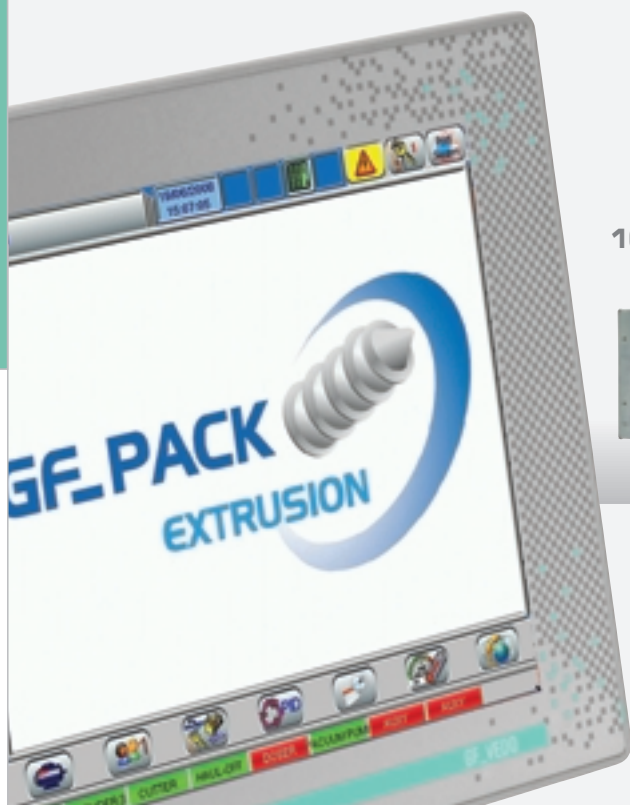
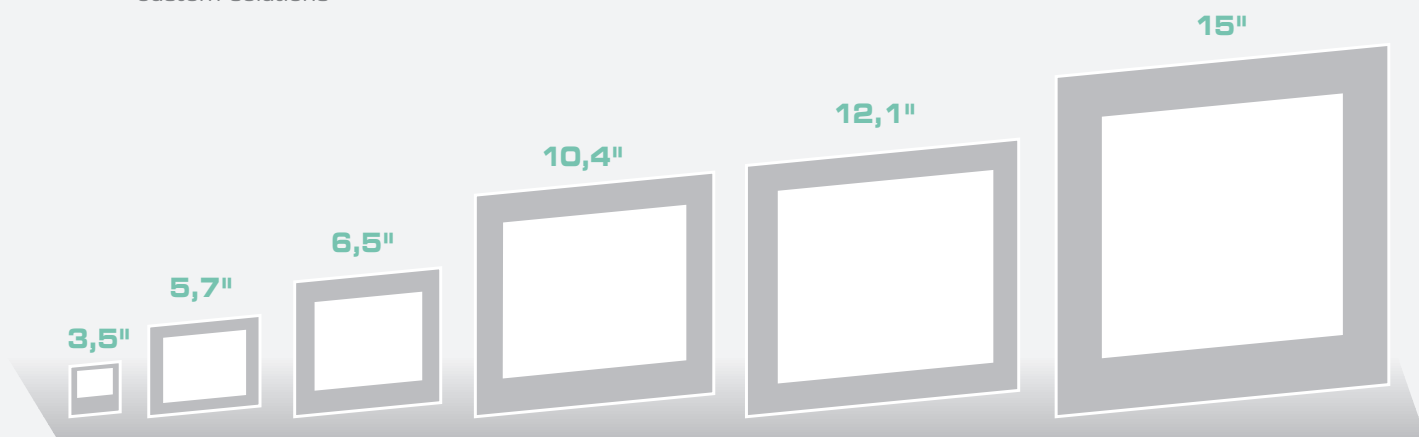
Our Know how,  
Your Solution.

## PROFILE

### Product range from 3.5" to 15"

With its extremely extensive range, Gefran satisfies a multiplicity of requirements in terms of display and solutions.

- touch screen
- integrated and non-integrated keyboards
- integrated and remote I/O
- custom solutions



## Transportability of applications

Using the latest generation software languages it is possible to develop applications that are independent of the hardware platform adopted.

- short development times
- reduced software maintenance
- scalability of applications
- availability of preinstalled "ready to use" applications



## Display and Control

Not just a simple operator interface, not just a powerful PLC, but a combination of both. Create display pages [JAVA] and develop an automation code [OpenPCS] using a single integrated software tool [Gefran Automation Builder].

- single tool for PLC and HMI
- IEC-61131-3
- support for different protocols
- real-time Ethernet

## FEATURES



### Sturdy and reliable

- no moving components
- reduced noise levels
- resistance to vibrations
- cooling system without fans or thermostat



### Flexible

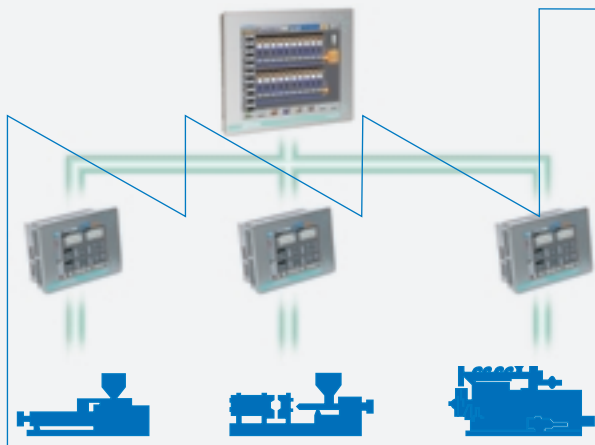
- supports a wide variety of operating systems
  - Windows
  - WindowsEmbedded
  - CE
  - XP
- Real time
  - VxWorks
  - Xenomai



2 in 1!  
PLC  
&  
HMI

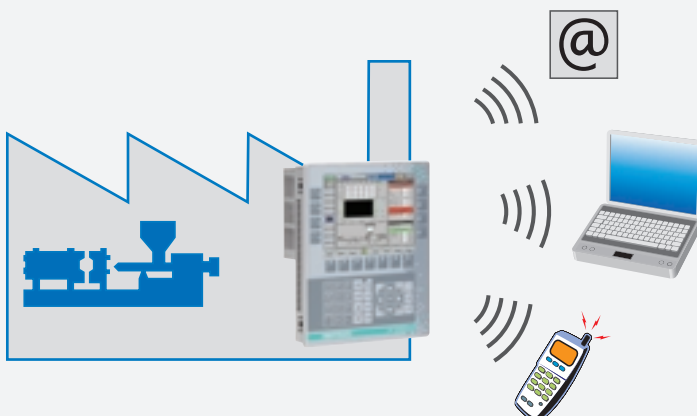
### Modular

- Local and wired expandability:  
GF\_VEDO 3.5" and GF\_VEDO 5.7"  
available with integrated I/O



### Information supervisors

- Extensive connectivity and aperture to I/O devices and company information systems (Intranet, Office and Internet)



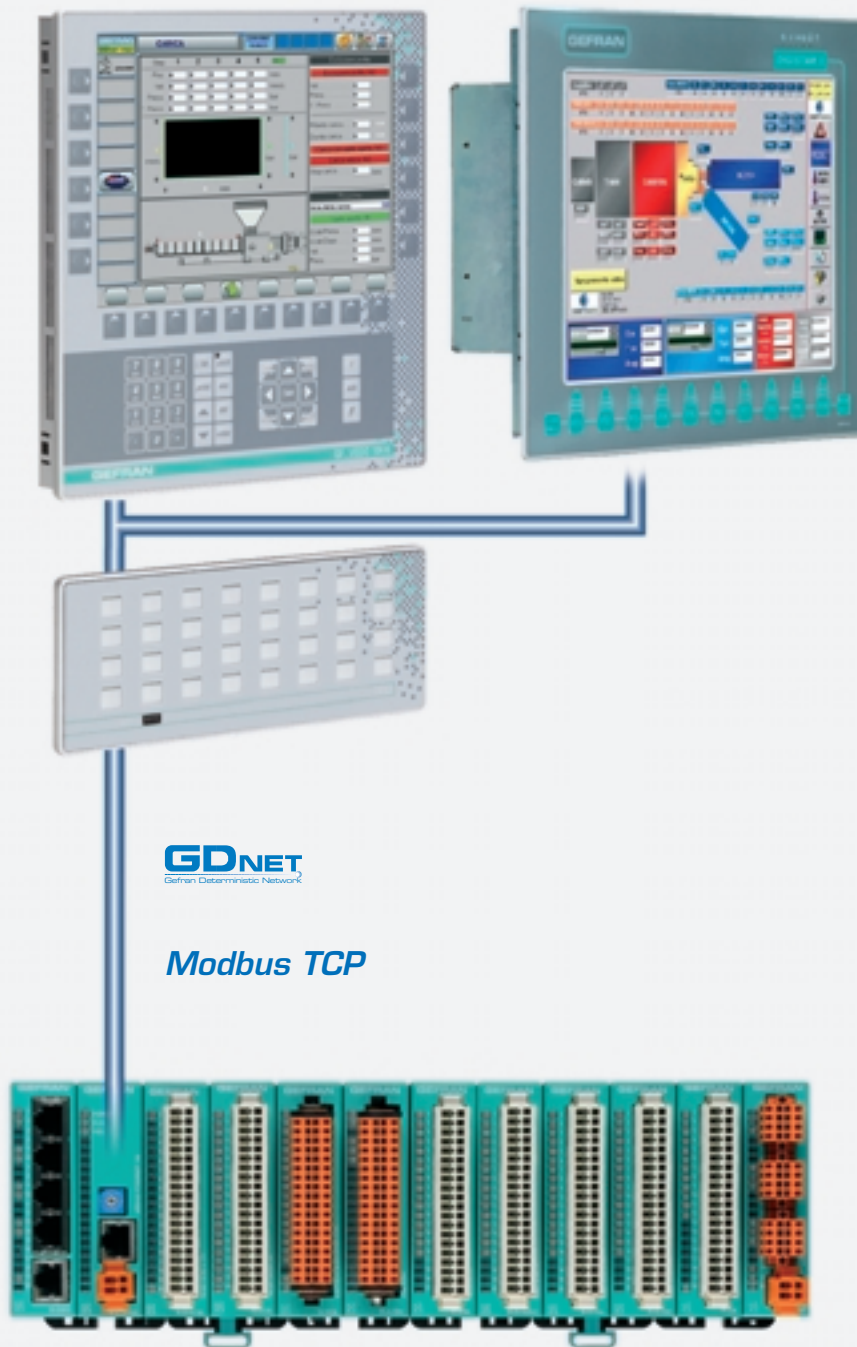
### Accessible

- Easy access including from remote position
  - Web server
  - SMS
  - Service network
  - Remote diagnostics

## ARCHITECTURE EXAMPLES

### Typical on board machine architecture

IEC 61131-3

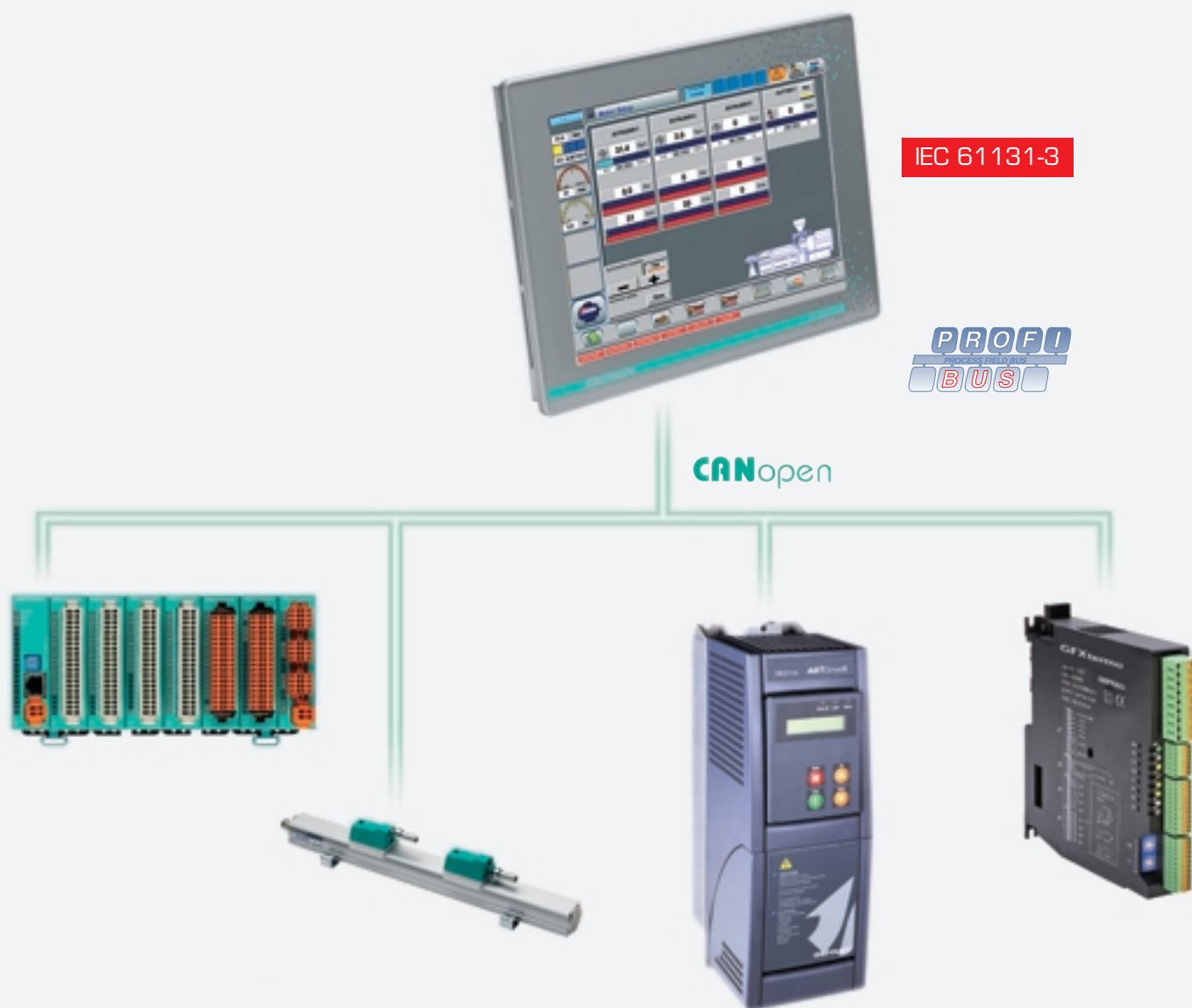


Architecture based on GDNNet (real-time ethernet) high performance protocols or Modbus TCP. Using the PC Digistar 15" / GF\_VEDO 104CK provides a clear representation of machine data, and combined with remote I/Os in the Gilogik II series, makes it possible to realize exceptional automation performance. Possibility of employing "ready to use" software applications.

#### Applications:

- Injection press
- Extrusion lines
- Blow Molding

## Distributed intelligence



Architecture based on the most widely used protocols - CANopen, Profibus DP, DeviceNet, Modbus RTU, Modbus TCP - extremely lean and versatile, making it possible to also realize automation using third party components.

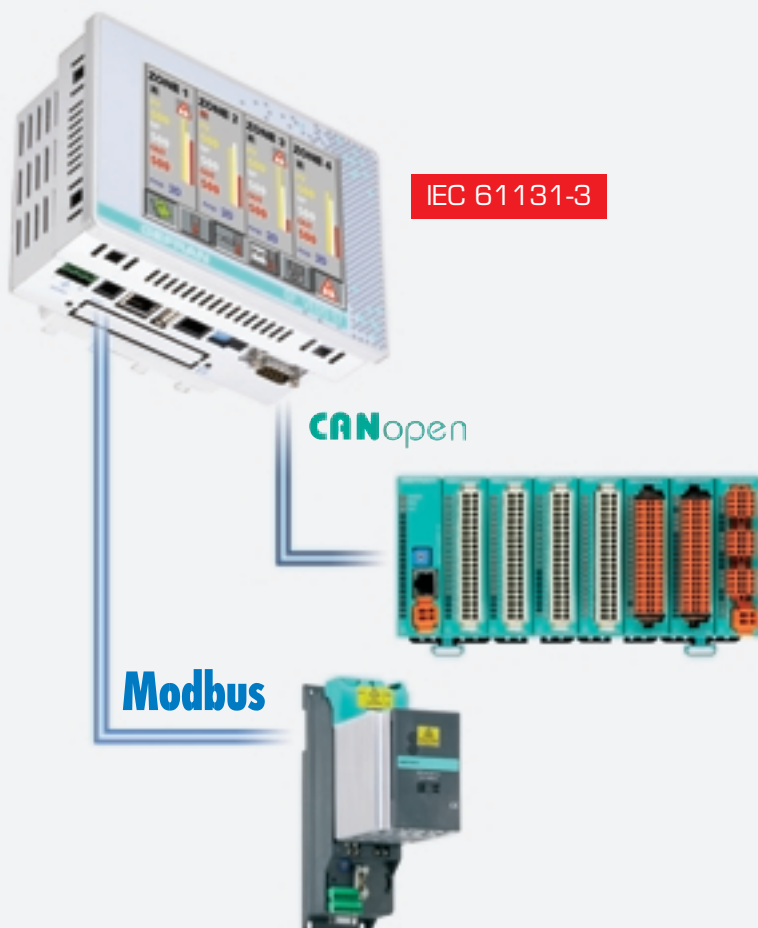
Machine control carried out by the GF\_VEDO 10.4".

Sensors and drives provided with fieldbus, for complete automation.

### Applications:

- Extruders
- Packaging
- Wood

## Double protocol utilization

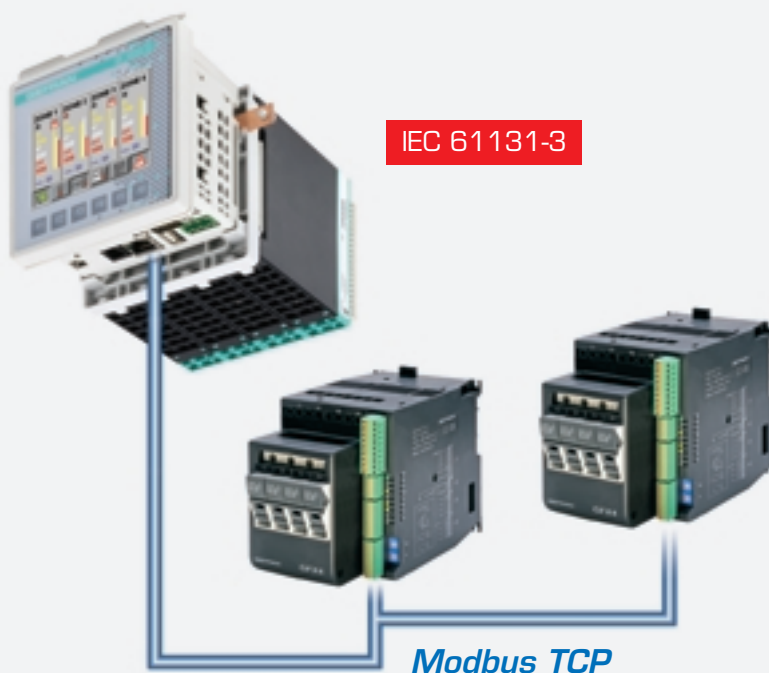


GF\_VEDO 5.7" with double protocol and management of combinational logic, Gilogik II for signals acquisition, and single loop GFX for autonomous temperature control.

### Applications:

- Furnaces
- Glass

## "Ready to use" temperature control



GF\_VEDO 3.5" with Ethernet Modbus TCP protocol, combined with GFX4 multiloop temperature controllers, makes it possible to very quickly realize compact and efficient automation solutions. It is possible to directly apply I/O on the back of the GF\_VEDO.

### Applications:

- Metals processing
- Laboratory extruders
- Glass treatment

OPERATOR AND  
CONTROL PANELS

## GF\_VEDO EL

35CT



57CT



## Operating system

Windows XPe

Windows CE

VxWorks

Linux

## SoftPLC

## Display

Type

TFT

TFT

N. colours

262,144

262,144

Dimensions

3,5"

5,7"

Resolution

320x240  
(QVGA)320x240  
(QVGA)

Luminosity

300 cd/m<sup>2</sup>500 cd/m<sup>2</sup>

Contrast

200:1

400:1

Backlighting [type/MTBF (h)]

LEDs/30.000

LEDs/30.000

Visual angle O/V

45°/15°-35°

75°/60°-75°

## Keyboards

Keys/Leds

6/0

-

## Touch screen

Type

4 wires resistance

Life

&gt; 1M operations

Controller

integrated

## Processor

Type

Cirrus Logic EP9307

Frequency

200 MHz

Core

ARM920T

## Memory

DRAM

64 MB

SRAM

256 kB

Mass Storage

64 MB [FLASH]

## Peripherals

1 x Ethernet 10/100 Mbps

1 x USB 2.0 Host [option]

1 x RS485 (RJ10) [option]

1 x Fieldbus [CANopen] [option]

1 x Bus Gilogik II [max 4 modules]

## Accessories

I/O modules



## Various

Dimensions

Faceplate

100x100x64 mm

169x120x76 mm

Cut out

93x93 mm

162x115 mm

Weight

0,4 Kg

0,8 Kg

Faceplate protection

IP65

IP65

Operating temperature

0...+50°C

Storage temperature

-20...+70°C

Power supply

24Vdc, -15% +20% 7W

24Vdc, -15% +20% 9W

Certifications



C US

| GF_VEDO TL                                                                                                   |                                                                                     |                                                                                   |                                                                                   | OPERATOR AND<br>CONTROL PANELS |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|
| 65CT                                                                                                         | 65CK                                                                                | 104CT                                                                             | 104CK                                                                             |                                |
|                              |    |  |  |                                |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   |                                |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Operating system               |
| •                                                                                                            | •                                                                                   | •                                                                                 | •                                                                                 | Windows XPe                    |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Windows CE                     |
| •                                                                                                            | •                                                                                   | •                                                                                 | •                                                                                 | WxWorks                        |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Linux                          |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | SoftPLC                        |
| •                                                                                                            | •                                                                                   | •                                                                                 | •                                                                                 |                                |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Display                        |
| TFT                                                                                                          | TFT                                                                                 | TFT                                                                               | TFT                                                                               | Type                           |
| 262,144                                                                                                      |                                                                                     |                                                                                   |                                                                                   | N. colours                     |
| 6,5"                                                                                                         | 6,5"                                                                                | 10,4"                                                                             | 10,4"                                                                             | Dimensions                     |
| 640x480<br>(VGA)                                                                                             | 640x480<br>(VGA)                                                                    | 800x600<br>(VGA)                                                                  | 800x600<br>(VGA)                                                                  | Resolution                     |
| 500 cd/m²                                                                                                    | 500 cd/m²                                                                           | 230 cd/m²                                                                         | 230 cd/m²                                                                         | Luminosity                     |
| 450:1                                                                                                        | 450:1                                                                               | 500:1                                                                             | 500:1                                                                             | Contrast                       |
| CCFL/50.000                                                                                                  | CCFL/50.000                                                                         | CCFL/10.000                                                                       | CCFL/10.000                                                                       | Backlighting [type/MTBF (h)]   |
| 140°/120°                                                                                                    | 140°/120°                                                                           | 120°/100°                                                                         | 120°/100°                                                                         | Visual angle O/V               |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Keyboards                      |
| -                                                                                                            | 47/1                                                                                | -                                                                                 | 54/1                                                                              | Keys/Leds                      |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Touch screen                   |
| 4 wires resistance                                                                                           | -                                                                                   | 4 wires resistance                                                                | -                                                                                 | Type                           |
| > 1M operations                                                                                              | -                                                                                   | > 1M operations                                                                   | -                                                                                 | Life                           |
| integrated                                                                                                   |                                                                                     | integrated                                                                        |                                                                                   | Controller                     |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Processor                      |
| GEODE SC1200                                                                                                 |                                                                                     |                                                                                   |                                                                                   | Type                           |
| 266 MHz                                                                                                      |                                                                                     |                                                                                   |                                                                                   | Frequency                      |
| x86                                                                                                          |                                                                                     |                                                                                   |                                                                                   | Core                           |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Memory                         |
| 128 - 256 MB                                                                                                 |                                                                                     |                                                                                   |                                                                                   | DRAM                           |
| 2 MB                                                                                                         |                                                                                     |                                                                                   |                                                                                   | SRAM                           |
| 64 MB - 1 GB [DOM]                                                                                           |                                                                                     |                                                                                   |                                                                                   | Mass Storage                   |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Peripherals                    |
| 2 x Ethernet 10/100 Mbps                                                                                     |                                                                                     |                                                                                   |                                                                                   |                                |
| 2 x USB 1.1 Host                                                                                             |                                                                                     |                                                                                   |                                                                                   |                                |
| 1 x RS485 (RJ10)                                                                                             |                                                                                     |                                                                                   |                                                                                   |                                |
| 1 x RS232 (9 pin) [option]                                                                                   |                                                                                     |                                                                                   |                                                                                   |                                |
| 1 x PS2 mouse, 1 x PS2 keyboard                                                                              |                                                                                     |                                                                                   |                                                                                   |                                |
| 1 x TF serial keyboard                                                                                       |                                                                                     |                                                                                   |                                                                                   |                                |
| 1 x Fieldbus CANopen [option]                                                                                |                                                                                     |                                                                                   |                                                                                   |                                |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Accessories                    |
| TF32-65                                                                                                      | TF32-104                                                                            |                                                                                   |                                                                                   | Fieldbus keyboards             |
|                           |  |                                                                                   |                                                                                   |                                |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Various                        |
|                                                                                                              |                                                                                     |                                                                                   |                                                                                   | Dimensions                     |
| 187x133 mm                                                                                                   | 187x230 mm                                                                          | 266x192,5mm                                                                       | 266x289mm                                                                         | Faceplate                      |
| 179,5x127 mm                                                                                                 | 180x222mm                                                                           | 258x184mm                                                                         | 258x281mm                                                                         | Cut out                        |
| 0,9 Kg                                                                                                       | 1,3 Kg                                                                              | 1,4 Kg                                                                            | 1,9 Kg                                                                            | Weight                         |
| IP65                                                                                                         |                                                                                     |                                                                                   |                                                                                   | Faceplate protection           |
| 0...+50°C                                                                                                    |                                                                                     |                                                                                   |                                                                                   | Operating temperature          |
| -20...+70°C                                                                                                  |                                                                                     |                                                                                   |                                                                                   | Storage temperature            |
| 24Vdc ± 25% 20W                                                                                              |                                                                                     |                                                                                   |                                                                                   | Power supply                   |
| <div>CE</div> <div></div> |                                                                                     |                                                                                   |                                                                                   | Certifications                 |

HMic

...

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09

OPERATOR AND  
CONTROL PANELS

## GF\_VEDO ML

65CT



65CK



104CT



104CK



## Operating system

Windows XPe

•

•

•

•

Windows CE

•

•

•

•

VxWorks

Linux

## SoftPLC

•

•

•

•

## Display

Type

TFT

TFT

TFT

TFT

N. colours

262,144

Dimensions

6,5"

6,5"

10,4"

10,4"

Resolution

640x480  
(VGA)640x480  
(VGA)800x600  
(SVGA)800x600  
(SVGA)

Luminosity

500 cd/m<sup>2</sup>500 cd/m<sup>2</sup>230 cd/m<sup>2</sup>230 cd/m<sup>2</sup>

Contrast

450:1

450:1

500:1

500:1

Backlighting [type/MTBF (h)]

CCFL/50.000

CCFL/50.000

CCFL/10.000

CCFL/10.000

Visual angle O/V

140°/120°

140°/120°

120°/100°

120°/100°

## Keyboards

Keys/Leds

-

47/1

-

54/1

## Touch screen

Type

4 wires resistance

-

4 wires resistance

-

Life

&gt; 1M operations

-

&gt; 1M operations

-

Controller

integrated

-

integrated

-

## Processor

Type

GEODE LX900

Frequency

600 MHz

Core

x86

## Memory

DRAM

128 - 512 MB (DDR)

SRAM

-

Mass Storage

1 GB - 2 GB [COMPACT FLASH]

## Peripherals

2 x Ethernet 10/100 Mbps

4 x USB 2.0 Host

1 x RS485 (RJ10)

1 x RS232 (9 pin F) [option]

1 x PS2 mouse, 1 x PS2 keyboard

1 x TF serial keyboard

1 x Fieldbus CANopen (9 pin M) [option]

## Accessories

Fieldbus keyboards

TF32-65



TF32-104



## Various

Dimensions

Faceplate

187x133 mm

187x230 mm

266x192,5mm

266x289mm

Cut out

179,5x127 mm

180x222mm

258x184mm

258x281mm

Weight

0,9 Kg

1,3 Kg

1,4 Kg

1,9 Kg

Faceplate protection

IP65

Operating temperature

0...+50°C

Storage temperature

-20...+70°C

Power supply

24Vdc ± 25% 20W

Certifications



(pending)

## GF\_VEDO ML

121CT



150CT



## GF\_VEDO HL

121CT



150CT

OPERATOR AND  
CONTROL PANELS

## Operating system

Windows XPe  
Windows CE  
WxWorks  
Linux

## SoftPLC

## Display

## Type

N. colours

Dimensions

Resolution

Luminosity

Contrast

Backlighting [type/MTBF (h)]

Visual angle O/V

## Keyboards

Keys/Leds

## Touch screen

Type

Life

Controller

## Processor

Type

Pentium Celeron™ 600 MHz  
Celeron Mobile™ 1500 MHz

## Memory

DRAM

SRAM

Mass Storage

## Peripherals

2 x Ethernet 10/100 Mbps

2 x USB 2.0 Host

1 x RS232 (9 pin F) + 1 x RS485 [option]

2 x RS232/RS485 (9 pin M)

1 x PS2 mouse, 1 x PS2 keyboard

1 x TF serial keyboard

1 x Fieldbus CANopen (9 pin M) [option]

## Accessories

TF48-121



TF64-150



TF48-121



TF64-150



Fieldbus keyboards

## Various

## Dimensions

Faceplate

Cut out

Weight

Faceplate protection

Operating temperature

Storage temperature

Power supply

Certifications



# INDUSTRIAL COMPUTERS

## DIGISTAR II

## DIGISTAR II C



### Operating system

Windows XP  
Windows XPe  
VxWorks

•

•

•

•

•

•

### SoftPLC

•

•

•

### Display

Type

TFT

TFT

TFT

TFT

TFT

TFT

N. colours

262k

Dimensions

10,4"

12,1"

15"

10,4"

12,1"

15"

Resolution

800x600  
[SVGA]

800x600  
[SVGA]

1024x768  
[XVGA]

800x600  
[SVGA]

800x600  
[SVGA]

1024x768  
[XVGA]

Luminosity

230 cd/m<sup>2</sup>

600 cd/m<sup>2</sup>

350 cd/m<sup>2</sup>

230 cd/m<sup>2</sup>

600 cd/m<sup>2</sup>

350 cd/m<sup>2</sup>

Contrast

500:1

500:1

700:1

500:1

500:1

700:1

Backlighting [type/MTBF (h)]

CCFL/10.000

CCFL/50.000

CCFL/50.000

CCFL/10.000

CCFL/50.000

CCFL/50.000

Visual angle O/V

120°/100°

140°/110°

140°/120°

120°/100°

140°/100°

140°/120°

### Touch screen

Type

5 wires resistance

5 wires resistance

life

> 1M operations

> 1M operations

Controller

integrated

integrated

### Processor

Type

Pentium Celeron™ 600 MHz

Pentium Celeron™ 600 MHz

Celeron Mobile™ 1500 MHz

Celeron Mobile™ 1500 MHz

Pentium Mobile™ 1800 MHz

Pentium Mobile™ 1800 MHz

### Memory

RAM

256..1024 MB

128..1024 MB

Mass Storage

1...4GB [SSD] /20GB<sup>\*)</sup> [HD]

64MB...4GB [SSD] /20GB<sup>\*)</sup> [HD]

### Peripherals

1 x Ethernet 10/100 Mbps

1 x Ethernet 10/100 Mbps

2 x USB 2.0 Host

2 x USB 1.1 Host

2 x RS232 (DB9M)

2 x RS232 (DB9M)

1 x LPT centronics

1 x LPT centronics

1 x FDD Floppy Disk

1 x FDD Floppy Disk

-

1 x matrix keyboard  
(RJ45 128 keys, 64 leds)

1 x PS2 mouse

1 x PS2 mouse

1 x PS2 keyboard

1 x PS2 keyboard

1 x VGA

1 x VGA

slot EXP. suitable for boards:

4 slot EXP. suitable for boards:

- GT-ETH

- GT-ETH

- GT-SER

- GT-SER

- GT-CAN

- GT-CAN

1 slot PCI

1 slot PCI

1 slot PC104 16 bit

1 slot PC104 16 bit

### Various

Dimensions

Faceplate

309x239x121 mm

333x295x117 mm

395,3x337x117 mm

309x239x121 mm

333x295x117 mm

395,3x337x117 mm

Cut out

280x212x115,1 mm

303x264x110,1 mm

365x307x110,9 mm

280x212x115,1 mm

303x264x110,1 mm

365x307x110,9 mm

Weight

4 kg

5 kg

7 kg

4 kg

5 kg

7 kg

Faceplate protection

IP65

IP65

Operating temperature

0...50°C

0...50°C

Storage temperature

-10°C...70°C

-10°C...70°C

Power supply

24Vdc ± 25%, 2,5A

24Vdc ± 25%, 2,5A

Certifications

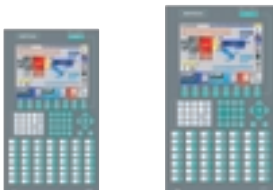


(pending)



(pending)

\*) according to market availability

| GF-BOX                                                                                           |                                                                                                  | GT-C                                                                              |                              | INDUSTRIAL<br>COMPUTERS |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------|-------------------------|
|                 |                                                                                                  |  |                              |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              | Operating system        |
| •                                                                                                |                                                                                                  |                                                                                   |                              | Windows XP              |
| •                                                                                                |                                                                                                  |                                                                                   |                              | Windows XPe             |
| •                                                                                                |                                                                                                  | •                                                                                 | •                            | VxWorks                 |
|                                                                                                  |                                                                                                  |                                                                                   |                              | SoftPLC                 |
|                                                                                                  |                                                                                                  | •                                                                                 | •                            |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              | Display                 |
| -                                                                                                | TFT                                                                                              | TFT                                                                               | Type                         |                         |
| -                                                                                                | 262k                                                                                             |                                                                                   | N. colours                   |                         |
| -                                                                                                | 10,4"                                                                                            | 12,1"                                                                             | Dimensions                   |                         |
| -                                                                                                | 800x600 (SVGA)                                                                                   | 800x600 (SVGA)                                                                    | Resolution                   |                         |
| -                                                                                                | 230 cd/m²                                                                                        | 600 cd/m²                                                                         | Luminosity                   |                         |
| -                                                                                                | 500:1                                                                                            | 500:1                                                                             | Contrast                     |                         |
| -                                                                                                | CCFL/10.000                                                                                      | CCFL/50.000                                                                       | Backlighting [type/MTBF (h)] |                         |
| -                                                                                                | 120°/100°                                                                                        | 140°/110°                                                                         | Visual angle O/V             |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              | Touch screen            |
| -                                                                                                | -                                                                                                | 5 wires resistance                                                                | Type                         |                         |
| -                                                                                                | -                                                                                                | > 1M operations                                                                   | Life                         |                         |
| -                                                                                                | -                                                                                                | integrated                                                                        | Controller                   |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              | Processor               |
| Pentium Celeron™ 600 MHz                                                                         | Pentium Celeron™ 600 MHz                                                                         |                                                                                   | Type                         |                         |
| Celeron Mobile™ 1500 MHz                                                                         | Celeron Mobile™ 1500 MHz                                                                         |                                                                                   |                              |                         |
| Pentium Mobile™ 1800 MHz                                                                         | Pentium Mobile™ 1800 MHz                                                                         |                                                                                   |                              |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              | Memory                  |
| 128..1024 MB                                                                                     | 128..1024 MB                                                                                     |                                                                                   | RAM                          |                         |
| 64MB...4GB [SSD] /20GB*) [HD]                                                                    | 64MB...4GB [SSD] /20GB*) [HD]                                                                    |                                                                                   | Mass Storage                 |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              | Peripherals             |
| 1 x Ethernet 10/100 Mbps                                                                         | 1 x Ethernet 10/100 Mbps                                                                         |                                                                                   |                              |                         |
| 2 x USB 2.0/1.1 Host                                                                             | 2 x USB 1.1 Host                                                                                 |                                                                                   |                              |                         |
| 2 x RS232 (DB9M)                                                                                 | 2 x RS232 (DB9M)                                                                                 |                                                                                   |                              |                         |
| 1 x LPT centronics                                                                               | 1 x LPT centronics                                                                               |                                                                                   |                              |                         |
| 1 x FDD Floppy Disk                                                                              | 1 x FDD Floppy Disk                                                                              |                                                                                   |                              |                         |
| 1 matrix keyboard                                                                                | 1 matrix keyboard                                                                                |                                                                                   |                              |                         |
| (RJ45 128 keys, 64 leds)                                                                         | (RJ45 128 keys, 64 leds)                                                                         |                                                                                   |                              |                         |
| 1 x PS2 mouse                                                                                    | 1 x PS2 mouse                                                                                    |                                                                                   |                              |                         |
| 1 x PS2 keyboard                                                                                 | 1 x PS2 keyboard                                                                                 |                                                                                   |                              |                         |
| 1 x VGA                                                                                          | 1 x VGA                                                                                          |                                                                                   |                              |                         |
| 4 slot EXP. suitable for boards:                                                                 | 4 slot EXP. suitable for boards:                                                                 |                                                                                   |                              |                         |
| - GT-ETH                                                                                         | - GT-ETH                                                                                         |                                                                                   |                              |                         |
| - GT-SER                                                                                         | - GT-SER                                                                                         |                                                                                   |                              |                         |
| - GT-CAN                                                                                         | - GT-CAN                                                                                         |                                                                                   |                              |                         |
| 1 slot PCI                                                                                       | 1 slot PCI                                                                                       |                                                                                   |                              |                         |
| 1 slot PC104 16 bit                                                                              | 1 slot PC104 16 bit                                                                              |                                                                                   |                              |                         |
|                                                                                                  |                                                                                                  |                                                                                   |                              | Various                 |
|                                                                                                  |                                                                                                  |                                                                                   | Dimensions                   |                         |
| -                                                                                                | 303x512x103 mm                                                                                   | 317x538x115 mm                                                                    | Faceplate                    |                         |
| 88x319x227 mm wall mounting                                                                      |                                                                                                  |                                                                                   | Cut out                      |                         |
| 2,5 kg                                                                                           | 5 kg                                                                                             | 6 kg                                                                              | Weight                       |                         |
| IP40                                                                                             | IP65                                                                                             |                                                                                   | Faceplate protection         |                         |
| 0...50°C                                                                                         | 0...50°C                                                                                         |                                                                                   | Operating temperature        |                         |
| -10°C...70°C                                                                                     | -10°C...70°C                                                                                     |                                                                                   | Storage temperature          |                         |
| 24Vdc ± 25%, 2,5A                                                                                | 24Vdc ± 25%, 2,5A                                                                                |                                                                                   | Power supply                 |                         |
| CE  (pending) | CE  (pending) |                                                                                   | Certifications               |                         |
| *) according to market availability                                                              |                                                                                                  |                                                                                   |                              |                         |

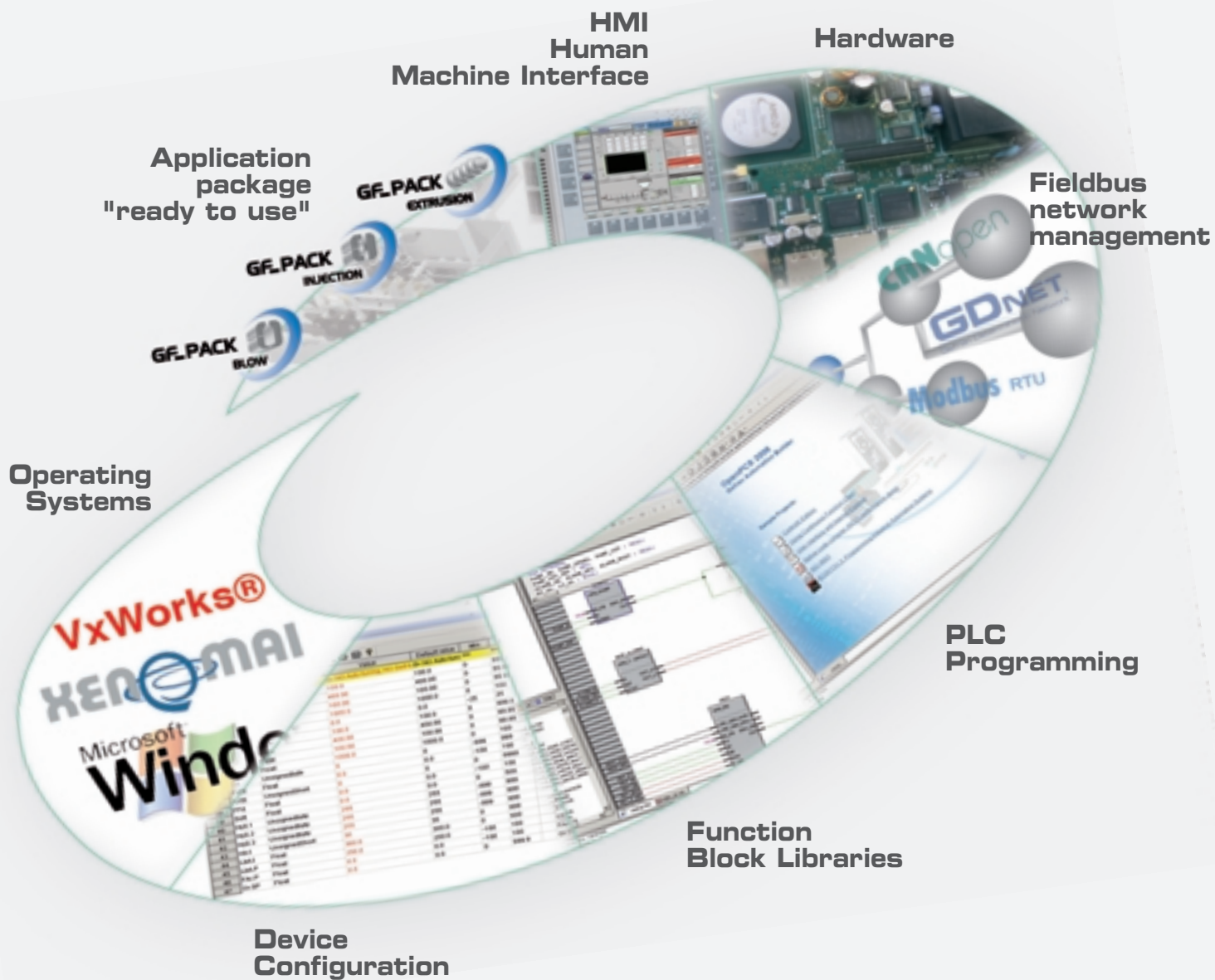
IPC

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# OUTSTANDING PROPOSALS FOR YOUR AUTOMATION



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