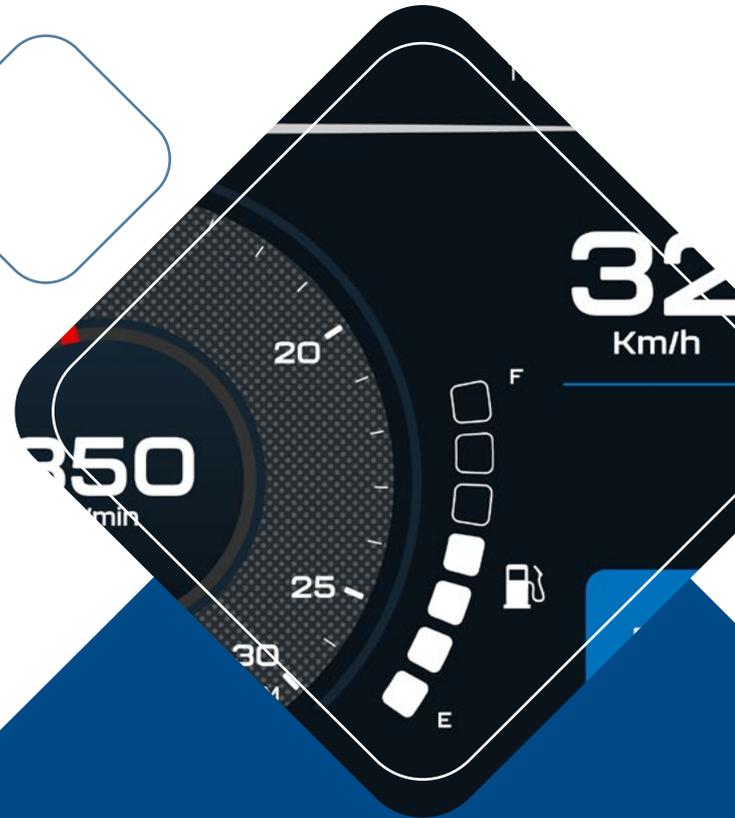
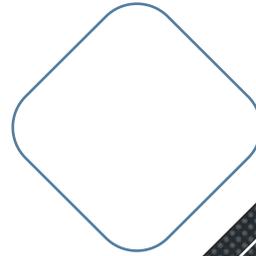


# CUSTOMIZABLE SOLUTIONS

VERSION 2.0



## DASHBOARDS



**SPOT**



**SPOT PLUS**



**QUIK**



**QUIK PLUS**



**SMART**



**TELLUS**



**REVO PLUS**



**IDEA**

## DISPLAYS



**GALILEO**



**GIOTTO**



**LEONARDO**

## ELECTRONIC CONTROL UNITS



**DYNA**



**ACTUA**



Create an account to download all the technical data sheets on [www.mta.it/en/resources](http://www.mta.it/en/resources)

# ALL THE ADVANTAGES OF A HIGHLY VERSATILE SYSTEM

MTA develops and produces a wide range of off-the-shelf customizable dashboards, displays and ECUs offering to all customers the possibility to have their own product with software tailored to each specific application, delivering all the benefits of a solution designed around the customer's unique needs.

The off-the-shelf dashboards and displays come in a wide variety of designs, sizes, LED configurations, input/output combinations and screen types, meeting the diverse needs of the agricultural and off-highway sectors. Offered in round, square, rectangular, oval or ovalized shapes, they meet today's OEM demands, with dimensions ranging from extremely small, 107 mm outer diameter, to the high-end 310 x 215 mm display.

State-of-the-art components, advanced treatments and materials guarantee high resistance to temperatures and vibrations, as well as an IP66 or IP67 degree of protection. IP grade of the products is guaranteed with harness connector mated with same or higher IP grade. Most of these products can feature both a 12 V and a 24 V power supply.

## READY TO “GO ELECTRIC”

With the rapid growth of electric vehicles in recent years, dashboards and displays must evolve accordingly. They now need to retain part of the original traditional layout while incorporating multiple EV specific indicators.

The customization facility of our off-the-shelf dashboards and displays range provides the easiest and quickest solution to this need, transforming a standard instrument panel into a panel for purely electric vehicles.



CARS



TRACTORS



OFF-HIGHWAY  
VEHICLES



MOTORCYCLES



TRUCKS



E-MOBILITY



DASHBOARD

### SPOT

- ..... Customizable dial plate, front bezel and internal mask
- ..... Dimensions: Ø 100 mm, external frame Ø 107 mm
- ..... 3.1" dot matrix LCD 160 x 56 pixel
- ..... 18 telltales
- ..... Antifog treatment
- ..... Power supply: 12 Vdc
- ..... Protection degree: IP6K9K front, IP65 rear
- ..... 20 inputs, 1 output (optional)
- ..... 1 CAN bus interface
- ..... RTC (optional), buzzer
- ..... Connector: Tyco Superseal 26 pins



### SPOT PLUS

- ..... Customizable dial plate
- ..... Dimensions: Ø 101 mm, external frame Ø 116 mm
- ..... 3,5" color TFT LCD 320 x 240 pixel with optical bonding
- ..... 2 push buttons (optional) and 5 telltales
- ..... Front glass with anti-glare and anti-reflection treatments
- ..... Power supply: 12 or 24 Vdc
- ..... Protection degree: IP69K front, IP65 rear
- ..... 20 inputs, 1 output
- ..... 1 CAN bus interface
- ..... RTC, buzzer
- ..... Connector: Tyco Superseal 26 pins

Customizable with

**MTA**STUDIO®

Simulable with

**MTA**CORE®  
SIMULATOR

## DASHBOARD

# QUIK & QUIK PLUS

Customizable dial plate, front bezel and internal mask

Dimensions: 230 x 120 x 60 mm

Antifog treatment

Power supply: 12 Vdc (9-16 Vdc)

Protection degree: IP66 front, IP65 rear

27 inputs, 1 output (optional) and 1 Vref 5 Vdc output (optional)

1 CAN bus interface

RTC (optional), buzzer

Connector: Tyco Superseal 34 pins



## QUIK

2.2" segment LCD

2 analog gauges, 1 LED bar graph and 18 telltales + 5 optional

Customizable with

**MTASTUDIO**

## QUIK PLUS

2.7" dot matrix LCD 128 x 128 pixel

2 analog gauges and 19 telltales

Simulable with

**MTACORE  
SIMULATOR**

## DASHBOARD

# SMART

Dimensions: 162 x 97 x 41.3 mm

4.3" color TFT LCD 480 x 272 pixel with optical bonding

Front glass with integrated telltales

10 telltales and 1 bar graph with 8 LEDs

Power supply: 12 Vdc

Protection degree: IP66

12 inputs, 6 power outputs and 1 H-bridge

1 CAN bus and 1 LIN interfaces

RTC, night & day sensor

Connector: Tyco Superseal 34 pins

Customizable with

**MTASTUDIO**

Simulable with

**MTACORE  
SIMULATOR**



## DASHBOARD

# IDEA

Customizable dial plate

Dimensions: 294 x 142 x 45.6 mm

7" color TFT LCD 800 x 480 pixel x 16.7M colors with optical bonding

Portrait or landscape

Front glass with anti-glare, anti-reflection, anti-fingerprint and anti-scratch treatments

4 push buttons and 18 telltales

Power supply: 12 Vdc (9-16 Vdc) and 24 Vdc (18-32 Vdc)

Protection degree: IP65

18 inputs, 5 outputs and 1 Vref 5 Vdc output

2 CAN bus and 1 LIN interfaces, 1 analog video input

RTC, internal buzzer, ambient light sensor

Connectors: 1 Tyco Superseal 34 pins, 1 video input



Customizable with

**MTA**STUDIO®

Simulable with

**MTA**CORE®  
SIMULATOR

## DASHBOARD

# TELLUS

Customizable dial plate, front bezel

Dimensions: 286 x 135 x 63 mm

3.5" color TFT LCD 240 x 320 pixel

2 analog gauges

2 push buttons and 25 telltales

3 LED bar graph + 2 optional

PMMA front lens with antifog treatment

Power supply: 12 Vdc

Protection degree: IP65

36 inputs, 4 outputs

2 CAN bus and 1 LIN interfaces

RTC, buzzer

Connectors: 1 Tyco 26 pins 3 keys  
and 1 Tyco 26 pins 5 keys



Customizable with

**MTA**STUDIO®

Simulable with

**MTA**CORE®  
SIMULATOR

## DASHBOARD

# REVO PLUS

Customizable dial plate, front bezel and internal mask

Dimensions: 317 x 152 x 73 mm

4.3" color TFT LCD 480 x 272 pixel

3 analog gauges (optional 2 or 4 gauges)

4 push buttons and 32 telltales

PMMA front lens with antifog/mineral glass (optional)

Power supply: 12 Vdc or 24 Vdc

Protection degree: IP66 front, IP65 rear

42 inputs, 4 outputs and 1 Vref 5 Vdc output

2 CAN bus and 1 LIN interfaces, 1 analog video input

RTC, buzzer, night & day sensor

Connectors: 1 Tyco Superseal 34 pins  
and 1 Tyco Superseal 26 pins



Customizable with

**MTA**STUDIO®

Simulable with

**MTA**CORE®  
SIMULATOR

## DISPLAY

# GALILEO

Dimensions: 164 x 114 x 45.7 mm

5" color TFT IPS 800 x 480 pixel with optical bonding

Multitouch screen (up to 2 touch points)

Front glass with anti-glare and anti-fingerprint treatments

Power supply: 12 Vdc (8-16 Vdc) and 24 Vdc (18-32 Vdc)

Protection degree: IP69K

1 CAN bus, 1 USB, 2 Ethernet interfaces

RTC, ambient light sensor

Connector: 2x 12-pin connectors Deutsch DTM06-12Sx compatible

Linux based device

Android based device (Linux based OS on request)



## DISPLAY

# GIOTTO

Dimensions: 240 x 145 x 45 mm

8" color TFT LCD 800 x 480 pixel x 262k colors with optical bonding (landscape)

Multitouch screen (up to 10 touch points)

Front glass with anti-reflection and anti-fingerprint treatments

Power supply: 12 Vdc (8-16 Vdc) and 24 Vdc (18-32 Vdc)

Protection degree: IP66

10 inputs, 2 outputs and 1 Vref 5 Vdc output

2 CAN bus, 1 LIN, 2 USB, 2 Ethernet BroadR-Reach, 1 RS232 interfaces and 2 analog video inputs

Loudspeaker mono, RTC, ambient light sensor

Connectors: Tyco Superseal 34 pins, 2 mini BNC

Android based device (Linux based OS on request)

Customizable with



## DISPLAY

# LEONARDO

Dimensions: 316 x 205 x 46 mm

12.1" color TFT LCD 1280 x 800 pixel x 262k colors with optical bonding (portrait or landscape)

Multitouch screen (up to 10 touch points)

Front glass with anti-reflection and anti-fingerprint treatments

Power supply: 12 Vdc (9-16 Vdc) and 24 Vdc (18-32 Vdc)

Protection degree: IP66

10 inputs, 2 outputs and 1 Vref 5 Vdc output

2 CAN bus, 1 LIN, 2 USB, 1 Ethernet BroadR-Reach, 1 RS232 interfaces and 2 analog video inputs

Audio OUT

Loudspeaker mono, RTC, ambient light sensor

Connectors: Tyco Superseal 34 pins, 2 mini BNC

Android based device (Linux based OS on request)

Customizable with



Customizable with

**MTA**STUDIO®

Simulable with

**MTA**CORE®  
SIMULATOR



ECU

## DYNA

Universal controller for agricultural or off-highway vehicles

Dimensions: 162 x 113 x 40 mm  
(excluding fixing points and connector)

Power supply: 12 Vdc (9-16 Vdc) and 24 Vdc (18-32 Vdc)

Protection degree: IP67

16 inputs, 16 outputs and 2 Vref 5 Vdc/8 Vdc outputs

2 CAN bus and 2 LIN interfaces

RTC

Connector: Delphi 48 pins

Customizable with

**MTA**STUDIO®

Simulable with

**MTA**CORE®  
SIMULATOR



ECU

## ACTUA

Universal controller for agricultural or off-highway vehicles

Dimensions: 185 x 221 x 42 mm  
(excluding fixing points and connector)

Power supply: 12 Vdc (9-16 Vdc) and 24 Vdc (18-32 Vdc)

Protection degree: IP67

58 inputs, 32 outputs, 2 Vref 5 Vdc/8 Vdc outputs,  
and 1 h-bridge (at 12 Vdc)

4 CAN bus, 2 LIN

RTC

Connector: Tyco 154 pins

## SOFTWARE FOR CUSTOMIZABLE DEVICES

MTA provides specific software tools developed in-house. These tools are used to program dashboards, displays and electronic control units with customizable functions.

Each customer will be able to create a “tailored” device according to his needs.

The software tools are managed using the MTA Dongle. The USB allows the end user to unlock all the MTA development and configuration tools.



Read more about MTA customizable solutions on [www.mta.it/en/programming-tools](http://www.mta.it/en/programming-tools)

## MTA STUDIO®

MTA Studio is a specific tool used to program dashboards, displays and electronic control units developed with customizable functions which allow the customers to create “tailored” devices.

- Logic functions coded using graphical programming languages compliant to standard IEC 61131-3 (FBD – Function Block Diagram) or C/C++.
- HMI programmed using a WYSIWYG (What You See Is What You Get) interface: supported segment, dot matrix and TFT display technology.
- Easy to use: autocomplete helps to find variables and functions; clear graphic interface, simple application software interface: hardware is mainly managed by var to read and write.
- Integrated debugger based on XCP protocol.
- CAN bus interfaces support: J1939 transport protocols (BAM/CMDT), programmable CAN wake up and termination.
- Rich set of libraries: IEC 61131-3, odometer, hourmeter, etc.
- Real-time task management.
- Code protection using HASP USB dongle to prevent unauthorized access.
- Easy integration of external codes and libraries.



MTA Speedy Creator is a plugin developed for Android Studio (the worldwide integrated development environment for Google's Android OS). It enables the customers to easily program the displays.

- Android Studio provides a WYSIWYG (What You See Is What You Get) environment. In addition, MTA provides a set of customizable graphic components (widget libraries) to enable the developers to easily create advanced user interfaces.
- Faster development phase is guaranteed from the Android ecosystem which gives access to rich API and functionalities.
- The Android framework has been extended to provide access to all common automotive interfaces (CAN, LIN, digital input/output, analog). Vehicle data can be configured using MTA Speedy Creator, a dedicated Android Studio data modelling plugin developed by MTA.
- MTA offers 3 widget library styles, designed for agriculture, industrial and construction fields.
- Logic functions can be programmed using graphical widget or native Java languages.
- Specific customizations can be done by the customer himself or by MTA.



MTA Gate is a specific tool designed for EOL department and/or for technical service points use.

- MTA Gate allows to transfer a software generated by MTA Studio to all devices. The "Hardware Variant ID" and "Customer ID" prevent misuse and/or wrong software updates.
- Parameters setting: possibility to read and write EEPROM parameters on devices.
- Access to device services: take advantage of software application utilities such as stepper motor calibration.
- Parameters map import from MTA Studio.
- MTA Gate can be used by standard Windows GUI or command-line for EOL process automation purposes.
- MTA Gate license distribution through USB dongle.

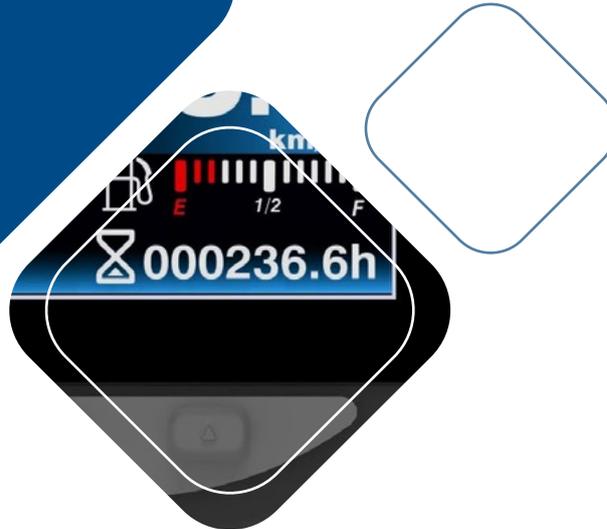


MTA Core Simulator is a tool that allows to simulate and debug MTA Studio applications directly on the PC.

- The tool allows to develop and test the application without a real target and provides a complete debug environment.
- Hardware virtualization allows to play with the configuration without harness.
- Simulation of run time behavior.
- Real ECU software runs on PC.
- Fully integrated with MTA Studio.
- "Simulation mode" is designed to help non skilled software engineers to easily understand how the application is working.
- "Debugger mode" is designed for C programmers that need a powerful debug environment.



[www.mta.it](http://www.mta.it)



#### CUSTOMIZABLE SOLUTIONS

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