

METATRONIX

Innovative Intelligent Transport Systems

Certified System™
IATF 16949
Automotive



M-MADT

M-MADT (Metatronix Multi Application Driver Terminal) is a Multi-application vehicle displaying device and a HMI provider for all on board vehicle applications.

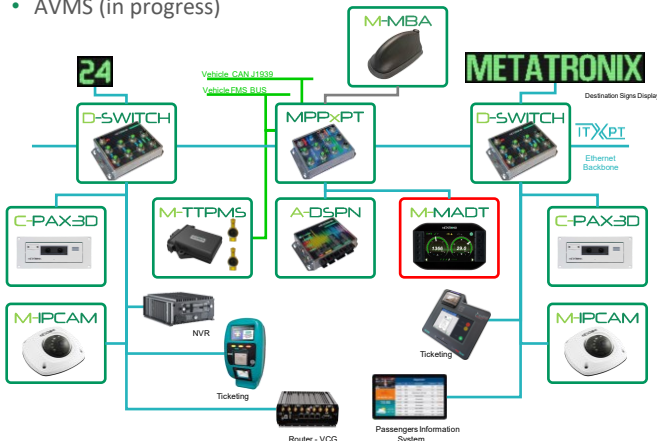
The combination of M-MADT and MPPxPT allows to obtain the best performances and to provide all the ITS services necessary for the management of the passenger transport service.

Functions:

- AVMS service and Driver interface
- Eco Driving performance
- TVCC & Rear view Display
- Vehicle Diagnostic Interface
- Diagnostic BlackBox
- Vehicle Remote Diagnostic
- ITS equipments Diagnostics
- ITxPT Services
- Passenger counting sensor management

ITxPT services:

- Module Inventory
- FMS to IP
- VEHICLE to IP
- APC - Automatic Passenger Counting
- MQTT Broker
- AVMS (in progress)



PROCESSOR	ARM® Cortex®-A8 up to 1 GHz
O.S.	Linux Embedded
MEMORY	RAM 512 MB DDR3
	Flash 4 GB
	2x CAN 2.0B
INTERFACES	1x Ethernet 10/100Base-T
	2x USB Host
	1x RS-232/RS-485
	4x Digital Inputs 4x Digital Outputs
SENSORS	Accelerometer, Temperature, Pressure
	7" TFT LCD 16:9 Resolution: 800x480 WVGA Backlight: LED Brightness: 500 cd/m² Orientation: Landscape or portrait Colors: 64 K / 16 bit Contrast ratio: 600:1
DISPLAY	
INPUTS	Capacitive Touchscreen 10 Buttons
Input Voltage	8 to 32 VDC, load dump, overvoltage & reverse polarity
Consumption	Operating: 5 to 10 W Standby: < 1 mA
Connector	AMP Superseal 34 ways
Display protection	3.2 mm hardened and scratchproofed glass
Housing	PA 6 - 30 % GLASS FIBER REINFORCED
Dimensions	226 x 147 x 54 mm (LxWxH) (excluding connectors)
Weight	0,980 Kg
Operating Temp.	-30° to +85° C
Storage Temp.	-40° to +95° C
Humidity	5 to 95% RH (non-condensing)

E-mark ECE R10-05, ITxPT Compliance (Label Planned)
Degree of protection : Standard IP 66 (ISO 20653) front & back
ISO 16750 F-L-H-G-B
EN 13309
EN ISO 14982
EN 50155 (Humidity, Ambient air temperature, Storage temperature) ¹
EN 50155 (Power supply voltage interruption, Surges, Isolation resist.) ¹
EN 60068-2-64 (Vibration, broad-band random and guidance) ¹
LAN Interface: FCC Part 15 Class B, EN 55022 Class B, EN 61000-3-2 and EN 61000-3-3
ICES-003 Class B, VCCI Class II, AS 3548, FCC Part 15 Sub C Section 15.247
IC RSS-210 Issue 5 Section 6.2.2(o), EN 300 328, EN 301 489-17, UL 60950-1
EN 60950 (EU), CSA C22.2, No. 60950, EN 55024

¹ Available on request



The MADT is Compliant with ITxPT

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MADE IN ITALY

INTELLIBUS

FLEETWEB

* Labeling in progress