

SMART BOX

Empower your Android Apps
with every Automotive
HW/SW interface



SMART BOX

Empower your smartphone Mobile Apps with every automotive HW/SW interface

The Smart Box has been designed to expand the full potential of your Android Apps by allowing them to interact with any automotive HW/SW interface.

Through a simple USB-C connection, your Android Apps running in a smartphone/tablet can read and write from any hardware and software interface available in a vehicle, while simultaneously fast-charging the battery of your mobile device.



Digitax
AUTOMOTIVE ELECTRONICS

SMART BOX



Digitax
AUTOMOTIVE ELECTRONICS

The Smart Box comes with a simple and ready-to-use Android SDK that allows you to easily integrate often complex interfaces like CAN bus and Inputs/Outputs with your Android Apps.

Exclusive AITP (Automotive Intense Task Processor) interfaces through SDK:

- Odometer input
- RS232
- OBDII ELM327 stack
- Can Bus with FMS and J1939 stack
- K-Line
- Digital I/O
- Analog inputs
- Digital Inputs
- Ignition input
- Lights input
- Power Outputs
- Panic button input
- One wire serial protocol
- Automotive 8/32V power input

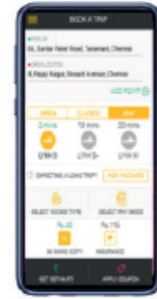
Android OS transparent standard interfaces:

- Ethernet
- USB Type A
- RS232
- RS485
- Audio In/Out
- HDMI video Out

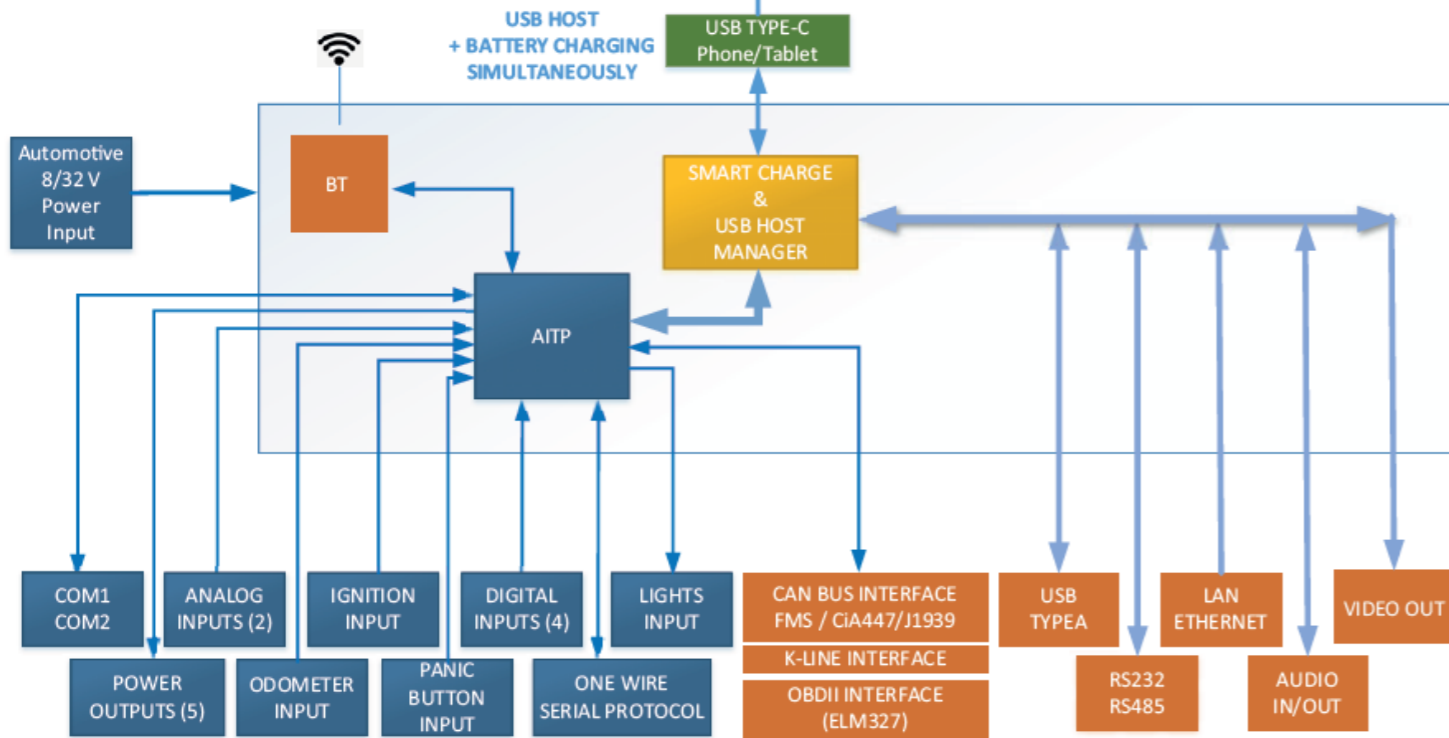
Available Versions:

- Wireless
- Bluetooth
- WiFi
- Digitax smart Box "Base"
- Digitax smart Box "Pro" Base + Smart Android platform, 4G modem, GPS, Bluetooth, WiFi

Your Fleet Management App



■ FEATURES ALWAYS AVAILABLE
■ OPTIONAL FEATURES



CONNECTIONS



A Connector AITP COM 2

PIN 1 = +12V/+5V
PIN 2 = RX COM3 SPLIT
PIN 3 = TX COM3 SPLIT
PIN 4 = GND
PIN 5 = P100
PIN 6 = P101
PIN 7 = GND
PIN 8 = RX COM2
PIN 9 = TX COM2
PIN 10 = +12V/+5V

C Connector CAN BUS

PIN 1 = NOT USED
PIN 2 = NOT USED
PIN 3 = NOT USED
PIN 4 = NOT USED
PIN 5 = K-LINE
PIN 6 = CAN2-L
PIN 7 = CAN2-H
PIN 8 = GND
PIN 9 = CAN1-L
PIN 10 = CAN1-H

E Connector J30 Can bus

1	GND
2	GND
3	+10V to + 24V External Power Supply
4	+10V to + 24V External Power Supply
5	Panic button
6	Digital input 1
7	Ignition input
8	Digital input 2
9	Vehicle wheel pulses (Odometer)
10	Digital input 3
11	+Light (Car light input)
12	Digital input 4
13	Passenger Sensor Input
14	Analog input 1
15	Power out 5 – Solid state relay 3A
16	Analog input 2
17	Power out 4 – Solid state relay 1A
18	Power out 1 – Solid state relay 1A
19	Power out 3 – Solid state relay 1A
20	Power out 2 – Solid state relay 1A

B Connector AITP COM 1

* PIN 1 = AUDIO IN -
* PIN 2 = AUDIO IN +
* PIN 3 = AUDIO OUT -
* PIN 4 = AUDIO OUT +
PIN 5 = AUX 1
PIN 6 = AUX 2
PIN 7 = GND AITP COM 1
PIN 8 = RX COM 1 AITP UART 4
PIN 9 = TX COM 1 AITP UART 4
PIN 10 = +12V/ +5V by JUMPER

D Connector COM Ports

PIN 1 = +12V/+5V
PIN 2 = RX COM2
PIN 3 = TX COM2
PIN 4 = GND
PIN 5 = NOT USED
PIN 6 = NOT USED
PIN 7 = GND
PIN 8 = RX COM1
PIN 9 = TX COM1
PIN 10 = +12V/+5V

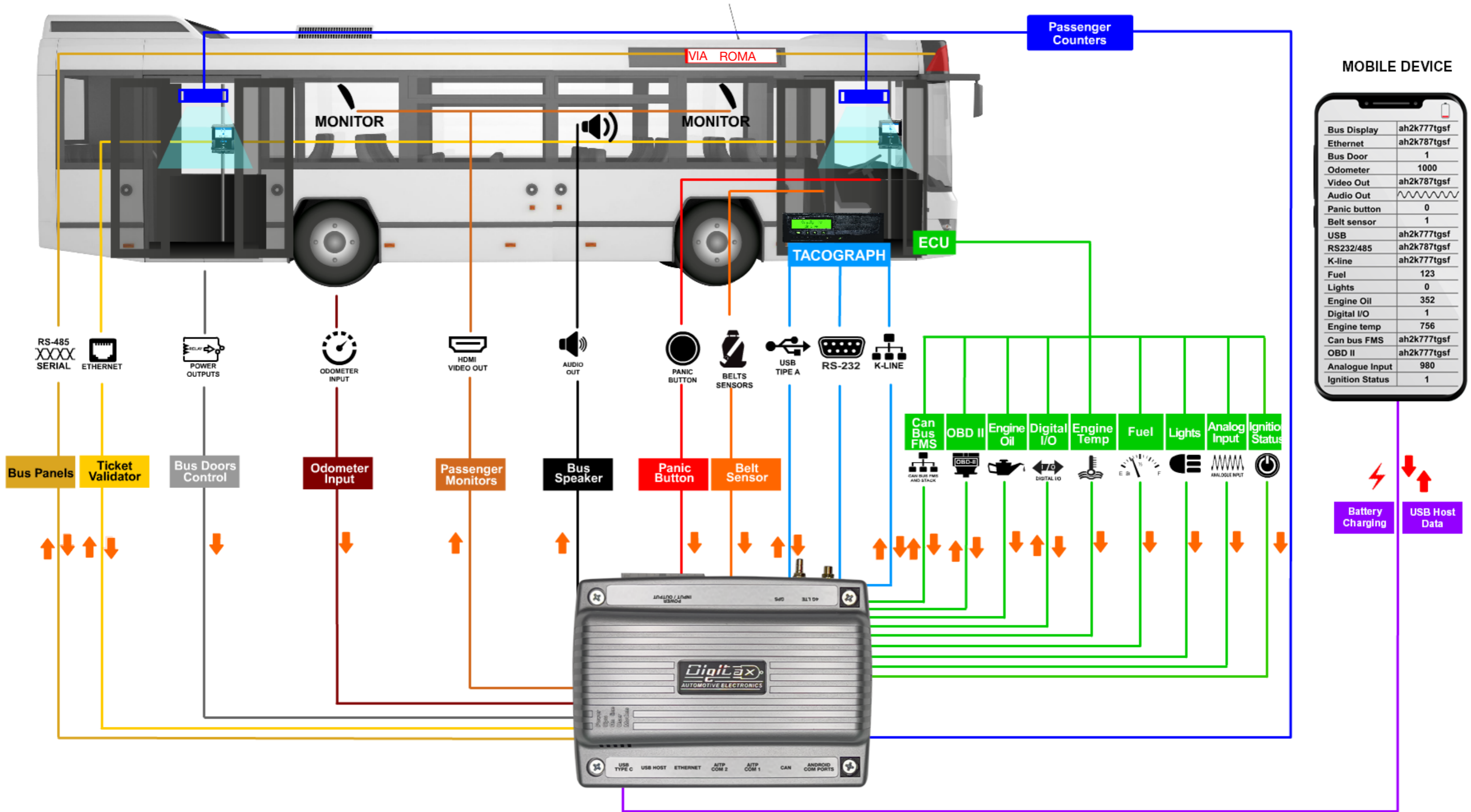
F Connector USB HOST

G Connector ETHERNET LAN



SMART BOX

DIRECT INTERFACES



MOBILE DEVICE

Bus Display	ah2k777tgsf
Ethernet	ah2k787tgsf
Bus Door	1
Odometer	1000
Video Out	ah2k787tgsf
Audio Out	~~~~~
Panic button	0
Belt sensor	1
USB	ah2k777tgsf
RS232/485	ah2k787tgsf
K-line	ah2k777tgsf
Fuel	123
Lights	0
Engine Oil	352
Digital I/O	1
Engine temp	756
Can bus FMS	ah2k777tgsf
OBD II	ah2k777tgsf
Analogue Input	980
Ignition Status	1

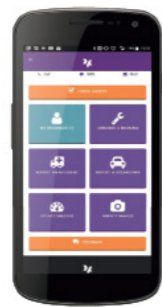
Battery Charging
 USB Host Data

CONFIGURATIONS

SMART BOX PRO

ANDROID

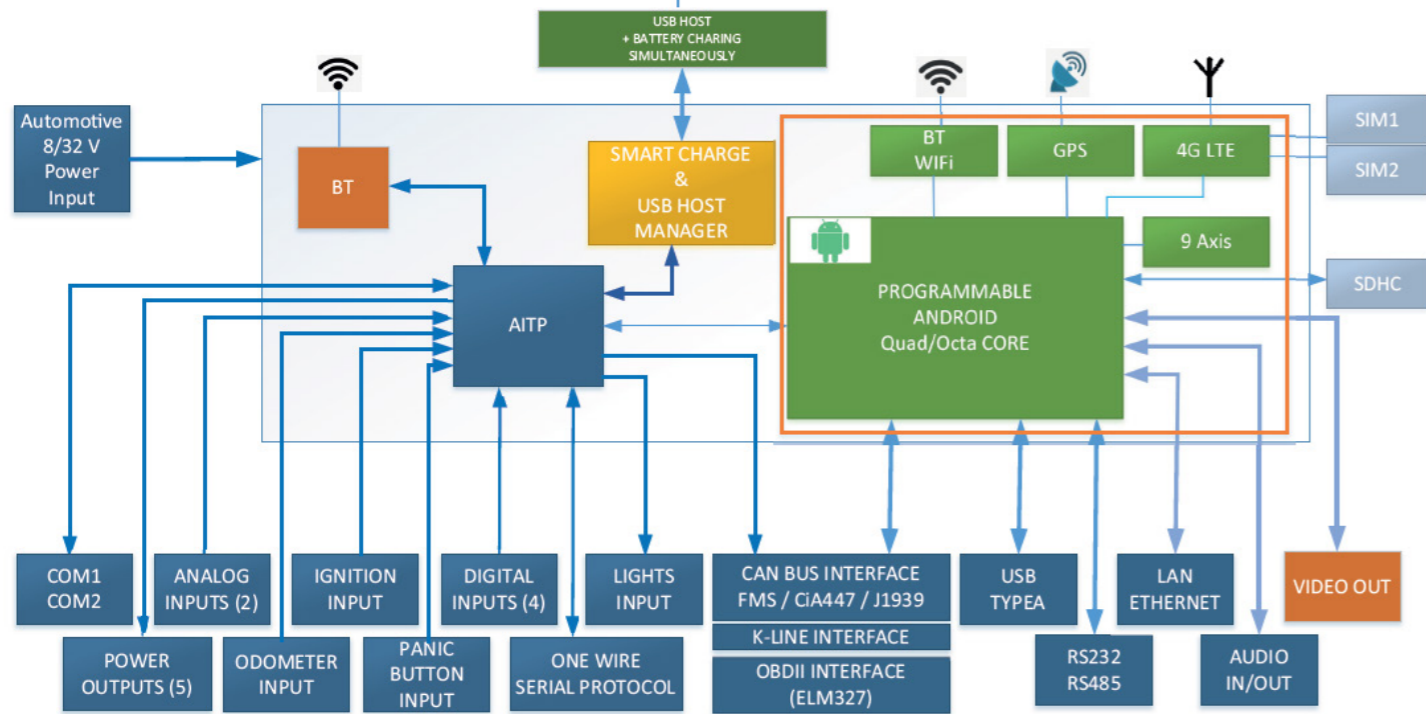
Your Fleet Management App



PIM TABLET



■ FEATURES ALWAYS AVAILABLE
■ OPTIONAL FEATURES

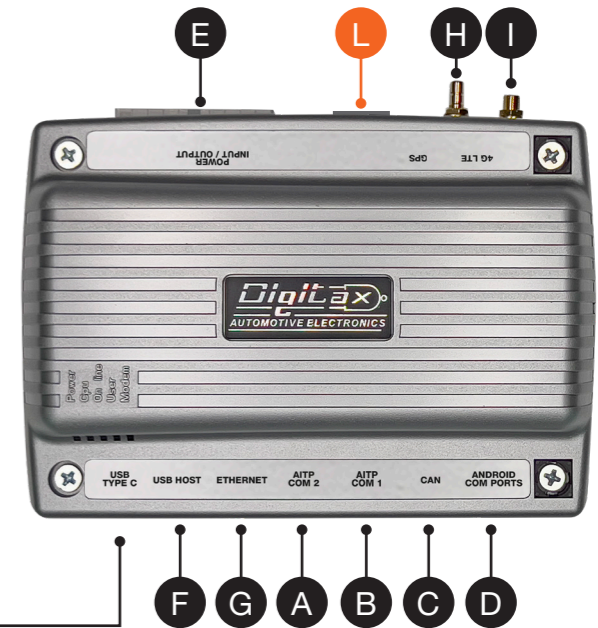


CONNECTIONS

TABLET



SMARTPHONE



A Connector AITP COM 2

PIN 1 = +12V/+5V
PIN 2 = RX COM3 SPLIT
PIN 3 = TX COM3 SPLIT
PIN 4 = GND
PIN 5 = PIO0
PIN 6 = PIO1
PIN 7 = GND
PIN 8 = RX COM2
PIN 9 = TX COM2
PIN 10 = +12V/+5V

C Connector CAN BUS

PIN 1 = NOT USED
PIN 2 = NOT USED
PIN 3 = NOT USED
PIN 4 = NOT USED
PIN 5 = K-LINE
PIN 6 = CAN2-L
PIN 7 = CAN2-H
PIN 8 = GND
PIN 9 = CAN1-L
PIN 10 = CAN1-H

E Connector J30 Can bus

1	GND
2	GND
3	+10V to + 24V External Power Supply
4	+10V to + 24V External Power Supply
5	Panic button
6	Digital input 1
7	Ignition input
8	Digital input 2
9	Vehicle wheel pulses (Odometer)
10	Digital input 3
11	+Light (Car light input)
12	Digital input 4
13	Passenger Sensor Input
14	Analog input 1
15	Power out 5 – Solid state relay 3A
16	Analog input 2
17	Power out 4 – Solid state relay 1A
18	Power out 1 – Solid state relay 1A
19	Power out 3 – Solid state relay 1A
20	Power out 2 – Solid state relay 1A

B Connector AITP COM 1

PIN 1 = ANDROID AUDIO IN -
PIN 2 = ANDROID AUDIO IN +
PIN 3 = ANDROID AUDIO OUT -
PIN 4 = ANDROID AUDIO OUT +
PIN 5 = AUX 1
PIN 6 = AUX 2
PIN 7 = GND AITP COM 1
PIN 8 = RX COM 1 AITP UART 4
PIN 9 = TX COM 1 AITP UART 4
PIN 10 = +12V/ +5V by JUMPER

D Connector COM Ports

PIN 1 = +12V/+5V
PIN 2 = RX COM2
PIN 3 = TX COM2
PIN 4 = GND
PIN 5 = ANDROID DEBUG SERIAL TX
PIN 6 = ANDROID DEBUG SERIAL RX
PIN 7 = GND
PIN 8 = RX COM1
PIN 9 = TX COM1
PIN 10 = +12V/+5V

E Connector USB HOST

F Connector ETHERNET LAN

G Connector GPS

H Connector 4G LTE

L Connector VIDEO OUT

Technical specifications and external appearance are subject to change without notice



SMART
BOX BASE

SMART
BOX PRO

Digitax
AUTOMOTIVE ELECTRONICS

Digitax Italy Headquarters
Via dell'Industria 16
62017 Porto Recanati (MC) - ITALY
Phone +39 071 7590984 – Fax +39 071 9797405
Web: www.digitax.com – E-mail: info@digitax.com
GPS: 43.412423,13.654716