

VISUALCOUNTER GATEWAY

ON-BOARD HUB FOR
THE REMOTE MANAGEMENT
OF PASSENGER FLOW



The VISUALCOUNTER GATEWAY data concentrator allows the VISUALCOUNTER.TRANSIT passenger counting system to function autonomously in any public transport vehicle without the need for a computer on board

PASSENGER COUNTING DATA CONCENTRATOR

Device for autonomous management and provision of data of passenger counting on public transport

REMOTE MANAGEMENT OF FLOW PER STOP

Adds up the data from the counting of passengers per door and stop, and sends it via 3G together with the GPS location to a remote server, for management and statistical use

MULTIPLE COMMUNICATION INTERFACES

- 3G wireless communications module
- Series RS-485 and TCP/IP Ethernet communications

DIFFERENT INTEGRATION MODELS

- VC.Gateway - Sat: Includes positional and communication GPS module GPRS
- VC.Gateway - Basic: Without GPS and GPRS modules. Data aggregation and direct integration with the system on board

POWER OPTIONS

10/30 VDC power - Compatible PoE (IEEE 802.3af)

EASY INTEGRATION WITH EXTERNAL I/O SYSTEMS/SENSORS

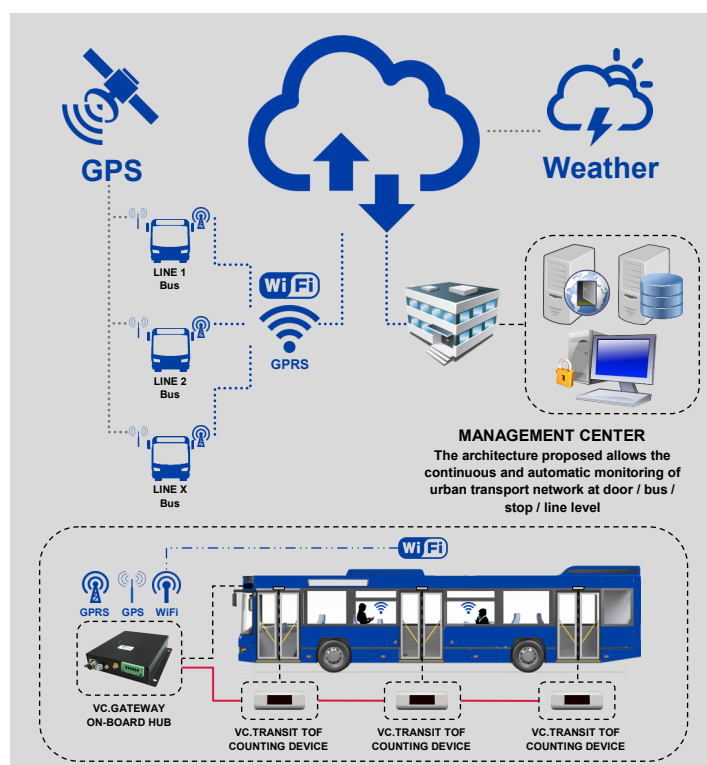
Optocoupled digitals I/O to facilitate integration

APPROBALS

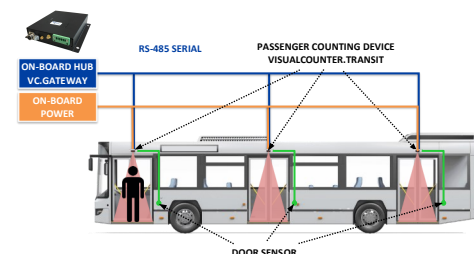
Approved by official laboratories for installation into automotive vehicles and railway

PASSENGER ANALYSIS (OPTIONAL)

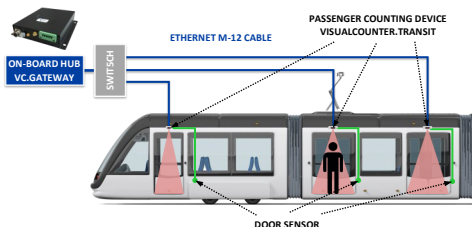
WiFi/BT smartphone detection module for the anonymous tracking of passenger journeys



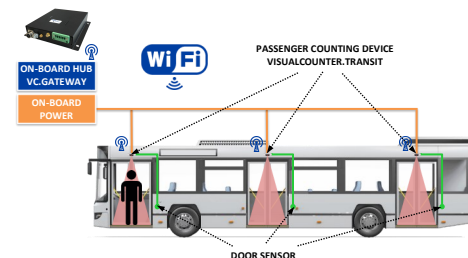
CONNECTION DIAGRAM



SERIAL RS-485 COMMUNICATIONS



ETHERNET COMMUNICATIONS



WIFI COMMUNICATIONS

TECHNICAL SPECIFICATIONS

Voltage / Power consumption	<ul style="list-style-type: none"> 10/30 VDC - (5W max.) PoE (Power Over Ethernet) - IEEE 802.3af compatible
Communications	<ul style="list-style-type: none"> Wireless GPRS communications Internal vehicle communications: RS-485 serial TCP/IP Ethernet WiFi
Connectors	<ul style="list-style-type: none"> Serial RS-485: Phoenix 6p (Serial RS-485 communications Power door sensor) TCP/IP Ethernet: M12 4p (TCP/IP Ethernet PoE communications) Phoenix 4p (Power Door sensor) SMA connector for GPRS antenna SMA connector for GPS antenna Female RP-SMA connector for WiFi antenna
Types	<ul style="list-style-type: none"> VC.Gateway - Sat: GPS module and GPRS module included VC.Gateway - Basic: GPS module and GPRS module NOT included
Operating mode	Management of passenger data influx per door in each stop
Internal clock / Memory	Available/Historical internal storage of stops information
I/O	2 Optocoupled digitals I/O
Dimensions / Weight	440 g / 150 mm x 143 mm x 32 mm
Housing	2mm aluminum housing
MTBF	> 300.000 h
Environmental parameters	<ul style="list-style-type: none"> ROHS Operating ambient temperature range -25°C / +55°C Operating ambient temperature range -40°C / +70°C Relative humidity 10% / 90%
Design standards	<ul style="list-style-type: none"> Safety of Information Technology Equipment - IEC 60950-1 ed.2.1 & EN 60950-1 : 2006+A1+A11+A12 EMC Directives - IEC/EN 55022 & IEC/EN 55024 & IEC/EN 61000-3-2 & IEC/EN 61000-3-3 ERM Electromagnetic Compatibility and Radio Spectrum Matters - EN 301 511 / EN 300 440-2 / EN 301 489-1-3-7 Automotive EMC Standards - ECE ONU R10: ISO 11452-2 / ISO 7637-2 / CISPR 25 Railway Application Standards - EN 50155 Railway EMC Standards - EN 50121-3-2 Railway Shocks and vibrations - EN 61373 Automotive Shocks and vibrations - EN 60721-3-5 European Directive 2014/53/EU - Radio Equipment Directive (RED)

VISUALCOUNTER AROUND THE WORLD

- More than 20.000 counting devices installed
- Present in 80 countries on all five continents
- Reference customers in each market niche
- Solutions tailored to each country and sector
- Developing, manufacturing and marketing own counting people solutions



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