



AMCS ANDROID VDH

Android VDH single board computer with integrated weighing

Overview

The AMCS Android VDH is an integrated single board computer running an Android operating system which was specifically designed for use in on waste collection vehicles.

The Android VDH brings together multiple inputs including the capability to do on board weighing and RFID on one device. The unit provides a comprehensive array of communication channels and interfaces making it an ideal platform for integration of multiple systems that are now present on modern waste collection vehicle such as weighing/RFID/Canbus/Cameras & mobile applications.

As the AMCS Android VDH runs Android 8.0 as its operating system it can support both AMCS mobile application and any additional application required to support the Drivers daily work load.

Technical specification

CPU	Freescle iMX6 quad core cortex A9 PM Core 1.25GHz
RAM	2GB DDR3-1066
Storage	On board SSD 8GB/ 32GB 1 mico SD
Display	HDMI touch screen
Camera	2 analog camrea (Pal/Secam/NTSC)
Network	Ethernet, WiFi, Bluetooth
Modem	3G/4G modem available and supported
GPS	Ublox GPS
I/O	2X RS232, 2X RS485, Can, 4X Digital out, 8 Digital In, 2X 2 channel ADC & USB OTG
Electrical	Supply 9-36 VDC
Operational temperature	-20 to +50 deg C
Other	Accelerometer 3 axis

AMCS

VDH ANDROID

Featured highlights

- ▶ AMCS Android VDH has a full Android operating system which brings a host of advantages to the operator as it is capable of running mobile application while also has ability to support integration to third party hardware.
- ▶ On board weighing as AMCS Android VDH has 2X 2 channel ADC it is capable of delivering on board weighing without the need for external weighing instrument.
- ▶ Supports AMCS mobile solutions as AMCS Android VDH runs Android 8.0 it is capable of running AMCS mobile solutions and by adding a HDI touch screen is the cab for driver interaction.
- ▶ GPS/GPRS/WiFi/Bluetooth/ CanBus AMCS Android VDH has multiple communication channel available to support both integration and communication from the vehicle.
- ▶ Camera inputs With both analog camera inputs available and ethernet port it provide the platform for integration to DVR camera systems or standalone camera inputs.
- ▶ Digital I/O available on AMCS Android VDH provides the capability to take in sensor inputs or deliver out digital outputs which can be used by external hardware devices.
- ▶ Serial inputs AMCS Android VDH has both RS 232/ RS 485 serial connection and Canbus connection available as standard for interfacing with external hardware installed on the Vehicle.

Major benefits

The AMCS solution provides the following key benefits:

- ▶ Ability to perform a profit & loss analysis on each customer and identify unprofitable customers
- ▶ Reduced revenue leakage by addressing the problem of revenue lost through fraud and incorrect pricing
- ▶ Implement pay by weight waste collection services
- ▶ Take control of your biggest variable cost – cost of disposal by weight
- ▶ Proof of service – more effective dealing of customer queries and resolution of issues
- ▶ Ability to offer varied and effective pricing plans targeted at your customer base
- ▶ Improved profitability as blocking of unauthorised lifts enables you to only lift the bins for which you are being paid
- ▶ Improved overview and efficiency of operations as data collection in real time enables you to take action at the moment a problem presents itself

Identification

- ▶ RFID: Up to 3 RFID channels
- ▶ 125kHz and 134.2 kHz frequencies available
- ▶ UHF RFID capability available
- ▶ Patented technology for GPS identification

Weighing

- ▶ Dynamic weighing – no interference with lift cycle
- ▶ Compatible with all lift types

About AMCS

AMCS is the leading supplier of integrated software and vehicle technology for the waste, recycling and material resources industries.

