DIGI™

WIRELESS VEHICLE BUS ADAPTER

Wireless adapter installs in minutes without cab-cluttering cables to give Transportation Solution Providers access to vehicle bus data

Digi's Wireless Vehicle Bus Adapter (WVA) is a rugged, compact plug-in device that provides easy access to vehicle data via standard Wi-Fi and web services. The WVA installs in minutes by connecting directly into the diagnostic port of the vehicle. Support for J1708 and J1939 standards allows the WVA to work with almost any fleet vehicle on the road today.

The WVA enables Transportation Solution Providers to reduce their development costs, have fastest time to market and expand their solution offering. Low-cost hardware plus a zero dollar installation cost allows TSPs to target medium and small fleets with their solution; something that has been cost prohibitive until now.

A web services API accelerates integration with existing applications. Vehicle data can be read, subscribed to, or have programmed alert levels. The WVA handles the J1708/J1939 protocols and delivers only the vehicle data your application needs. The WVA stays up-to-date with the latest J1939 standards, meaning an application does not need to change when the standard changes.

BENEFITS

– On-board J1939/J1708 message processing simplifies integration with applications
– Less than 5 minutes to install, uninstall or replace
– No cabling, no cluttering of the cab
– Supports emerging mobile devices: Android and iOS smartphones, tablets and OBCs
– Power management to minimize drain on vehicle battery
– Open architecture based on industry standards: Linux, REST APIs, Wi-Fi 802.11
– 3-year warranty on hardware
– Best-in-class tech support and integration services

APPLICATION EXAMPLE

SAAS APPLICATION BACKEND

DEVICE CLOUD

DEVICE MANAGEMENT

FLEET TELEMATICS SOLUTION

Cellular/VPN

In-Cab Device - Smart Phone, Tablet or OBC

Wi-Fi

WIRELESS VEHICLE BUS ADAPTER

Vehicle Bus

RELATED PRODUCTS

Digi TransPort® WR44

Digi TransPort® WR44 R

Digi Device Cloud℠

Digi Remote Manager℠

Accessories
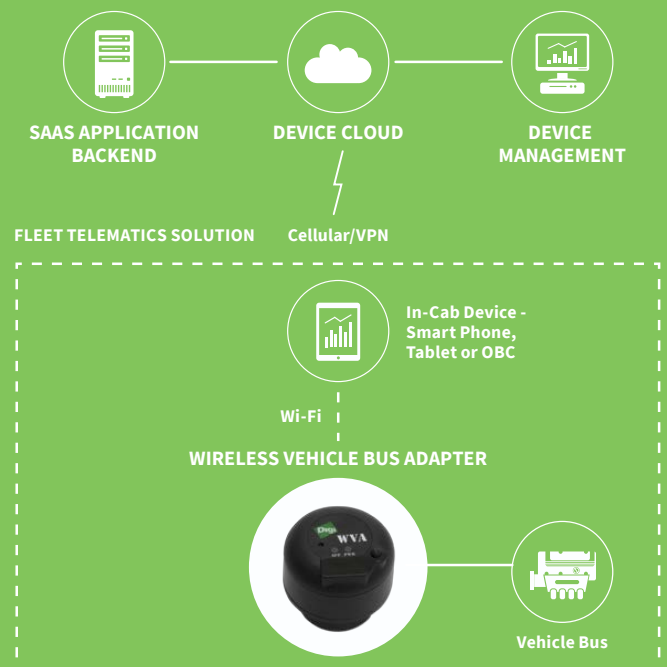
SPECIFICATIONS — Wireless Vehicle Bus Adapter

GENERAL

MANAGEMENT	WebUI, Digi Device Cloud
SOFTWARE	REST web services
OPERATING SYSTEM	Linux
SECURITY	HTTPS, WPA2, Admin password
MEMORY	Total: 128 MB Flash, 64 MB RAM; Available user space: 20 MB Flash
LEDS	Power, SW defined
ANTENNA	Internal

MECHANICAL

DEVICE CONNECTOR	9-Pin Deutsch
DIMENSIONS (HEIGHT X DIAMETER)	2.33 in x 2.15 in (5.9 cm x 5.5 cm)
WEIGHT	0.26 lb (0.12 kg)

WI-FI

802.11	b/g/n
DATA RATE	Up to 72.2 Mbps
TRANSMIT POWER	1 MB: 12.5 dBm; 54 MB: 12.25 dBm; 65 MB: 9.25 dBm
RECEIVER SENSITIVITY	1 MB: -91 dBm; 54 MB: -75 dBm; 65 MB: -71 dBm
MODES	Access Point, Client and Dual Modes
WI-FI SECURITY	WPA2

INTERFACES

USB	Type A; Host mode only
BUZZER	Yes; SW defined
ACCELEROMETER	3 Axis (2/4/8g selectable)
VEHICLE BUS	Dual J1939 (CAN) and J1708
CAN BAUD RATES	Up to 500 kbps

POWER REQUIREMENTS

POWER INPUT/POWER SUPPLY	9-36 VDC
POWER CONSUMPTION	Peak: 2.5 W, Idle: 1.5 W, Sleep 30 mW

ENVIRONMENTAL/REGULATORY APPROVALS

NEMA	IP54
OPERATING TEMPERATURE	-40° C to +70° C (-40° F to +158° F)
STORAGE TEMPERATURE	-40° C to +85° C (-40° F to +185° F)
SAFETY	UL 60950-1, EN 60950-1, CSA 22.2 No. 60950
EMC	CE, FCC PART 15 (Class B), CISPR25, EN5502, EN55024, EN301
AUTOMOTIVE	SAE-10452, SAE-10605, SAE 1455, ISO 7637

PART NUMBERS — DESCRIPTION

PART NUMBERS	DESCRIPTION
WVA-J200	Wireless Vehicle Bus Adapter (WVA), Wi-Fi, Telematics Version
WVA-J200-10	Wireless Vehicle Bus Adapter (WVA), Wi-Fi, Telematics Version, 10 Unit Bulk Pack

WVA is not certified for use in Europe

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