DIGI

J1708/J1939 TO WI-FI ADAPTER



## 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

## RELATED PRODUCTS











Accessories



| MANAGEMENT   WebUl, Dig/ Device Cloud  | SPECIFICATIONS                     | Wireless Vehicle Bus Adapter                                      |  |
|--|------------------------------------|---|--|
| SOFTWARE         REST web services           OPERATING SYSTEM         Linux           SECURITY         HTTPS, WPA2, Admin password           MEMORY         Total: 228 MB Fladh, 64 MB RAM; Available user space: 20 MB Fladh           LEDS         Power, SW defined           ANTENNA         Internal           MECHANICAL         DEVICE CONNECTOR         9-Pin Deutsch           DEVICE CONNECTOR         2-Pin Deutsch         Consider May 100 MB   | GENERAL                            |   |  |
| DEPARTING SYSTEM   | MANAGEMENT                         | WebUI, Digi Device Cloud  |  |
| 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         MECHANICAL           DEVICE CONNECTOR         9-Pin Deutsch           DIMENSIONS (HEIGHT X DIAMETER)         2.33 in x 2.15 in (5.9 cm x 5.5 cm)           WIEIGHT         0.26 lb (0.12 kg)           WIEIGHT           DATA RATE         Up to 7.2 x Mbps           DATA RATE         Up to 7.2 x Mbps           TARANSMIT POWER         1 MB: 12.5 dBm; 54 MB: 12.25 dBm; 65 MB: 9.25 dBm           RECEIVER SENSTIVITY         1 MB: 3.0 dBm; 54 MB: 17.5 dBm; 65 MB: 9.25 dBm           MODES         Access Point, Client and Dual Modes           WIEI SECURITY         WPA2           WIEI SECURITY         WPA2           WIEI SECURITY         WPA2           WIEI SECURITY         WPA2         HOST MODES         Access Point, Client and Dual Modes           WIEI SECURITY         WPA2         HOST MODES         Access Point, Client and Dual Modes           WIEI SECURITY         WPA2         HOST MODE  | SOFTWARE                           | REST web services   |  |
| MEMORY   Total: 128 MB Flash, 64 MB FAM; Available user space: 20 MB Flash   | OPERATING SYSTEM                   | Linux   |  |
| Power, SW defined   Internal    | SECURITY                           | HTTPS, WPA2, Admin password                                       |  |
| 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)  WHEIGHT  DATA RATE  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: 9.1 dBm; 54 MB: 7.5 dBm; 65 MB: 9.25 dBm  RECEIVER SENSITIVITY 2 MPA2  MODES Access Point, Client and Dual Modes  WHA2  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 REQUIREMENTS  POWER REQUIREMENTS  POWER REQUIREMENTS  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)  STORAGE TEMPERATURE  -40° C to +85° C (-40° F to +185° F)   | MEMORY                             | Total: 128 MB Flash, 64 MB RAM; Available user space: 20 MB Flash |  |
| DEVICE CONNECTOR   9-Pin Deutsch   | LEDS                               | Power, SW defined   |  |
| P-Pin Deutsch  | ANTENNA                            | Internal  |  |
| DIMENSIONS (HEIGHT X DIAMETER)   2.33 in x 2.15 in (5.9 cm x 5.5 cm)   | MECHANICAL                         |   |  |
| WEIGHT   D.26   b (D.12 kg)  | DEVICE CONNECTOR                   | 9-Pin Deutsch   |  |
| Miles   Mile | DIMENSIONS (HEIGHT X DIAMETER)     | 2.33 in x 2.15 in (5.9 cm x 5.5 cm)                               |  |
| b/g/n  | WEIGHT                             | 0.26 lb (0.12 kg)   |  |
| DATA RATE         Up to 72.2 Mbps           TRANSMIT POWER         1 MB: 12.5 dBm; 54 MB: 12.25 dBm; 65 MB: 9.15 dBm           RECEIVER SENSITIVITY         1 MB: 91 dBm; 54 MB: -75 dBm; 65 MB: -71 dBm           MODES         Access Point, Client and Dual Modes           WI-F1 SECURITY         WPA2           INTERFACES         USB           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 ROUNT/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)         F to +158° F)           STORAGE TEMPERATURE         -40° C to +85° C (-40° F to +158° F)  | WI-FI                              |   |  |
| 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  WH-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  POWER REQUIREMENTS  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 +158° F)  | 802.11                             | b/g/n   |  |
| 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  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  POWER REQUIREMENTS  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 +185° F)  STORAGE TEMPERATURE  -40° C to +85° C (-40° F to +185° F)  | DATA RATE                          | Up to 72.2 Mbps   |  |
| 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 REQUIREMENTS 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)  | TRANSMIT POWER                     | 1 MB: 12.5 dBm; 54 MB: 12.25 dBm; 65 MB: 9.25 dBm                 |  |
| 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 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 +158° F)   | RECEIVER SENSITIVITY               | 1 MB: -91 dBm; 54 MB: -75 dBm; 65 MB: -71 dBm                     |  |
| 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)   | MODES                              | Access Point, Client and Dual Modes                               |  |
| Type A; Host mode only  Pes; 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 +85° C (-40° F to +185° F)  STORAGE TEMPERATURE  -40° C to +85° C (-40° F to +185° F)  | WI-FI SECURITY                     | WPA2  |  |
| 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)  | INTERFACES                         |   |  |
| ACCELEROMETER  3 Axis (2/4/8g selectable)  Dual J1939 (CAN) and J1708  CAN BAUD RATES  Up to 500 kbps  POWER REQUIREMENTS  POWER INPUT/POWER SUPPLY  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)  | USB                                | Type A; Host mode only  |  |
| 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)   | BUZZER                             | Yes; SW defined   |  |
| CAN BAUD RATES  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)   | ACCELEROMETER                      | 3 Axis (2/4/8g selectable)  |  |
| 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)   | VEHICLE BUS                        | Dual J1939 (CAN) and J1708  |  |
| 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)  | CAN BAUD RATES                     | Up to 500 kbps  |  |
| 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)   | POWER REQUIREMENTS                 |   |  |
| 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)   | POWER INPUT/POWER SUPPLY           | 9-36 VDC  |  |
| 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)  | POWER CONSUMPTION                  | Peak: 2.5 W, Idle: 1.5 W, Sleep 30 mW                             |  |
| OPERATING TEMPERATURE         -40° C to +70° C (-40° F to +158° F)           STORAGE TEMPERATURE         -40° C to +85° C (-40° F to +185° F)  | ENVIRONMENTAL/REGULATORY APPROVALS |   |  |
| STORAGE TEMPERATURE  -40° C to +85° C (-40° F to +185° F)  | NEMA                               | IP54  |  |
|  | OPERATING TEMPERATURE              | -40° C to +70° C (-40° F to +158° F)                              |  |
| SAFETY UL 60950-1, EN 60950-1, CSA 22.2 No. 60950  | 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, EN55024, EN301   | EMC                                | CE, FCC PART 15 (Class B), CISPR25, EN5502, EN55024, EN301        |  |
| AUTOMOTIVE SAE-10452, SAE-10605, SAE 1455, ISO 7637  | AUTOMOTIVE                         | SAE-10452, SAE-10605, SAE 1455, ISO 7637                          |  |

| 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 |

 $\ensuremath{\mathsf{WVA}}$  is not certified for use in Europe

**DIGI SERVICE AND SUPPORT** / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit www.digi.com/support.

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