

# CAN Newsletter Online

CAN-TO-WIRELESS GATEWAY

## For bolt-on-machine mounting

HMS Networks introduced the Anybus Wireless Bolt CAN gateway enabling the host equipment to provide CAN communication via Wi-Fi or Bluetooth.



*The device enables CAN-based machinery and applications to transfer CAN data over a wireless link (Source: HMS Networks)*

The device builds on the success of Anybus Wireless Bolt dedicated for wireless Ethernet access and launched five years ago. As its predecessor, the gateway for bolt-on-machine mounting is suited for heavy-duty machinery and demanding industrial applications. Use cases vary from warehouse installations and AGVs (automated guided vehicles) to manufacturing of food, underground mining, or rough outdoor applications.

Wireless bidirectional communication is fulfilled either via Wi-Fi or Bluetooth using a TCP/IP (transmission control protocol/Internet protocol) link. A typical use case is wireless access to the J1939-based in-vehicle data of an industrial vehicle e.g. a bulk material transport truck. Via the gateway, CAN data is wirelessly communicated to a handheld tablet. This gives the operator the required control and visibility of the ongoing bulk material filling process. The device is transparent regarding the transported CAN data. Thus, it suits for any CAN-based higher-

layer protocol, including CANopen. It is possible to create mobile automation islands in a manufacturing process: The gateway will bridge them to the CANopen line wirelessly.

On the CAN side, the device supports bit-rates from 10 kbit/s to 1 Mbit/s. Up to 28 customizable CAN receive pass-through filters are available. Web-based device configuration is possible via a wireless link or LAN (local area network). A CLI (command line interface) serves for configuration and diagnostics purposes. The gateway package is shipped with a connector, communication processor, and integrated antenna in the same unit providing an industrial IP66/IP67 protection class.

Headquartered in Sweden, HMS Networks provides solutions for industrial information and communication. Employing worldwide over 700 people, the company develops and manufactures products under the brands Anybus, Ixxat, Ewon, and Intesis.



*Working under direct sun, possible operating temperature of the white-colored device (-40 °C to +65 °C) is by 20 °C higher as for the black variant (Source: HMS Networks)*

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