

Control Area Network (CAN) overview

CAN OVERVIEW

The Control Area Network (CAN) is a multiplexed wiring protocol developed by Bosch for use in automotive applications. As products supporting CAN have been made available by Philips Semiconductors and other semiconductor manufacturers, the protocol has become used in other industries including: industrial automation, machine tools, medical equipment, and building environmental control, to name a few. The CAN protocol is attractive for use in a wide range of applications because it has powerful error detection capabilities and features differential drive, and can be used comfortably in critical high noise environments. CAN is also very flexible in terms

of the transmission media and the connection scheme, and is generally easy to adapt to most applications.

Philips offers a wide range of parts that support the CAN protocol, including stand-alone parts as well as microcontrollers with integrated CAN interfaces. Datasheets for the 82C200 (Stand-alone CAN controller), 82C150 (CAN serial Linked I/O device), and 82C250 (CAN transceiver) are included in this section of this databook. Datasheets for the microcontrollers that have an integrated CAN interface (8XC592 and 8XC598) are included with Philips' 80C51 family products in Section 3 of the IC20 databook.