

5 Mbps (2 K x 8)On Chip RAM 7 V 40 mA Arcnet CircLink Controller

Manufacturers	Microchip Technology, Inc
Package/Case	PLCC-28
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for COM20020I-DZD or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Microchip's COM20020ID is a member of the family of Embedded ARCNET Controllers from Standard Microsystems Corporation. The device is a general purpose communications controller for networking microcontrollers and intelligent peripherals in industrial, automotive, and embedded control environments using an ARCNET protocol engine. The small 28 pin package, flexible microcontroller and media interfaces, eight-page message support, and extended temperature range of the COM20020ID make it the only true network controller optimized for use in industrial, embedded, and automotive applications. Using an ARCNET protocol engine is the ideal solution for embedded control applications because it provides a deterministic token-passing protocol, a highly reliable and proven networking scheme, and a data rate of up to 5 Mbps when using the COM20020ID.

A token-passing protocol provides predictable response times because each network event occurs within a predetermined time interval, based upon the number of nodes on the network. The deterministic nature of ARCNET is essential in real time applications. The integration of the 2Kx8 RAM buffer on chip, the Command Chaining feature, the 5 Mbps maximum data rate, and the internal diagnostics make the COM20020ID the highest performance embedded communications device available. With only one COM20020ID and one microcontroller, a complete communications node may be implemented. SOHARD ARCNET Analyzer "SH ARCALYZER-USB" (PCMCIA also available) by clicking this [link](#).

Features

Features

New Features for Rev. D

Data Rates up to 5 Mbps

Programmable Reconfiguration Times

28 Pin PLCC and 48 Pin TQFP RoHS Compliant Packages

Ideal for Industrial/Factory/Building Automation and Transportation Applications

Deterministic (ANSI 878.1) Token Passing ARCNET Protocol

Minimal Microcontroller and Media Interface Logic Required

Flexible Interface for Use with All Microcontrollers or Microprocessors

Automatically Detects Type of Microcontroller Interface

2K x 8 On-Chip Dual Port RAM

Command Chaining for Packet Queuing

Sequential Access to Internal RAM

Software Programmable Node ID

Eight 256 Byte Pages Allow Four Pages TX and RX Plus Scratch-Pad Memory

Next ID Readable

Internal Clock Scaler and Clock Multiplier for Adjusting Network Speed

Operating Temperature Range of -40°C to +85°C

Self-Reconfiguration Protocol

Supports up to 255 Nodes

Supports Various Network Topologies (Star, Tree, Bus...)

CMOS, Single +5V Supply

Duplicate Node ID Detection

Powerful Diagnostics

Receive All Packets Mode

Flexible Media Interface:

Traditional Hybrid Interface for Long Distances up to Four Miles at 2.5 Mbps

RS485 Differential Driver Interface for Low Cost, Low Power, High Reliability



Related Products



[COM20020I3V-DZD-TR](#)

Microchip Technology, Inc
PLCC-28



[EQCO31R20.3](#)

Microchip Technology, Inc
QFN-16



[EQCO-FW7501](#)

Microchip Technology, Inc
SMD



[EQCO-FW5001](#)

Microchip Technology, Inc
SMD



[EQCO30T5.2-TRAY](#)

Microchip Technology, Inc
QFN-16



[EQCO30R5.D-TRAY](#)

Microchip Technology, Inc
QFN-16



[EQCO62T20.3-TRAY](#)

Microchip Technology, Inc
QFN-16



[EQCO31T20.3-TRAY](#)

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QFN-16