

Vocoder

581694 (9468-00)

FESTO

LabVolt Series

Datasheet



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General Description

The Vocoder is a compact module designed to be installed into one of the slots of the Reconfigurable Training Module (RTM). It allows the study of digitized voice transmission in a CDMA environment using reduced data rates, with or without forward error correction (FEC). This module uses two voice encoders to simultaneously encode two audio channels and uses one voice decoder to decode the selected channel. Each voice encoder has a 1/4-inch audio input jack, allowing two microphones (included) to be used as audio sources. The voice decoder has two 2.5 mm audio output jacks for headphones (included), allowing two people to hear the decoded voice signal. BNC connectors are also provided for data and clock outputs and inputs.

Specifications

Parameter	Value
Net bit rates (FEC off/FEC on)	2050/3600, 2400/3600, and 2750/3600 bits
Output bit rate (including zero padding)	4097.5 bits
Audio Inputs (2)	
Voltage range	±100 mV
Impedance	5 kΩ
Audio Outputs (2)	
Voltage range	±1.4 V
Impedance	32 kΩ
Digital Inputs (2)	
Type	TTL
Digital Outputs (4)	
Type	TTL
Physical Characteristics	
Dimensions (H x W x D)	114 x 110 x 209 mm (4.5 x 4.3 x 8.2 in)
Net Weight	0.6 kg (1.4 lb)

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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