ORCA TECHNOLOGIES
TIME AND FREQUENCY PRODUCTS

Model DD-101

PTPv2/Time Code Desktop Display





Features:

- Synchronizes to PTPv2
- Synchronizes to IRIG IEEE-1344 (AM and DCLS)
- LED Status Indicators (ALARM & LOCK)
- OLED Display (64 X 256 dot matrix graphical)
- Night/Dim Mode
- Wide Range DC Power (9 to 32 Vdc)
- Manual Setup Control
- PoE via network port
- Optional network port boot for ruggedness and environmental protection

General Product Description

The DD-101 provides accurate time which is intended to be displayed on a surface or other location requiring large time characters where only a small panel space is available. The DD-101 is also capable to be mounted in a rack environment, using the accessory Rack Mount Faceplate, RFMP-BLK1. The time information may be derived from either the Precision Time Protocol (PTP) or a time code input.

The front panel provides a high contrast OLED display, status LEDs and navigation switches for parameter selection and setup.

The rear panel has an RJ-45 network connector, code input BNC and a 9-pin DB connector.

The DD-101 can be powered using pins on the DB-9 connector or via the network connection via Power Over Ethernet (PoE).

For additional information contact your ORCA Representative at 949-682-3289 or
via email at sales@orcatechnologies.com www.orcatechnologies.com

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Product Specifications

General Specifications

- Timing Accuracy:
  < 1 millisecond to PTP, Time Code input reference

Standard Inputs

- PTPv2 Default Profile
  Ethernet II, IPv4, UDP Multicast,
  Two-step PTPv2 packets
  Connector: RJ-45

- AM Serial Time Code Input
  Format: IEEE-1344 amplitude modulated
  Amplitude: 1 Vrms with 50-ohm termination
  Ratio: factory set to 3:1
  Connector: BNC labeled TIME CODE INPUT

- Aux Input
  Pin 1 CODE AM IN
  Format: IEEE-1344 amplitude modulated
  Amplitude: 1 Vrms with 50 ohm termination
  Ratio: factory set to 3:1
  Pin 6 CODE DC IN
  Format: IEEE-1344 DC Level Shift
  Amplitude: TTL levels
  Pin 8 NIGHT TOGGLE INTENSITY SELECT
  TTL LOW = NIGHT / Dim
  Pin 9 AUX TTL SENSE IN
  TBD
  Pins 2,5 GND
  Pins 3,7 No Connection
  Connector: DB-9 multi-pin,

Power Input

Power Over Ethernet (PoE) - IEEE802.3at type-2 hardware classification.

DC converter module power input - 9 to 32 Vdc, < 500 milliwatts.
Connector: AUX INPUT, DB9, (see Figure 1).

All power inputs are DIODE-ORed together which allows seamless transition when switching from one power reference to another. This power scheme operates such that the power reference at the highest voltage level is the one that provides power.

Environmental / Mechanical

DD-101 Size: 3.75”L x 4.06”W x 1.22”H (not including bezel)
Weight: < 1 pound
Operating Temperature: -20 to +70 degrees C
Storage Temperature: -40 to +80 degrees C
Humidity: To 95% non-condensing

Options

Rear Panel



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(Specifications Subject to Change—241004)