

# brandywine communications

## IDC-100 Network Time Device



### Key Features:

- **Uses Network Time Server to synchronize computers and other devices**
- **Programmable serial message compatible with almost any time display**
- **Browser based user interface for easy setup**
- **Compact size and low cost**
- **IRIG B Input Reference**
- **LED colons indicate GPS lock status**

Brandywine Communications IDC 100 Network Time Device is commercial unit that provides a convenient and flexible means of accurately time synchronizing computers, time displays, PBXs, and a wide variety of other equipment using IRIG B as a reference such as airports and railways stations where GPS is not available.

The IDC 100 is a small, rack mounted Network Time Server that uses modulated IRIG B as an input reference to accurately synchronize its internal clock. The IDC then provides accurate time to clients on the network using the industry standard Network Time Protocol (NTP)

Management of the IDC internals is by means of a built-in web browser interface or RS-232. This password protected web page allows the user to set up the text string required for the equipment to be synchronized. Time zone offsets and daylight savings setup are also accessed through the same web page.

Brandywine Communications also offers a complete line of time displays that are synchronized by NTP over a network connection.

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## IDC-100 Specifications

Interfaces	
Reference	IRIG B 124, IRIG B 123 with 1344 extensions (to use leap year/second attributes)
Connector	BNC
Input Voltage Range	1-7 Vp-p
Input Impedance	2k ohm
Network Interface	10/100 BaseT Ethernet
Connector	RJ45
IP Address Setup	Manual or automatic via DHCP
Serial Interface	
Connector	DB-9 female
Electrical	RS-232 and RS-485
Baud Rate	300 baud to 38.4k baud
Message Format	User programmable
Update Rate	Once per second
Protocols	
Network Time Protocol	RFC 1305
NTP Update Rate	User programmable 1/second to 1/day
Time Zone	User programmable
Daylight Savings Time	User programmable, default is USA
Physical	
Size and Weight	19" x 1.73" x 4.65" and 5 lbs.
<b>Environmental</b>	
Operating Temperature	0 to + 50 degrees C
Storage	-40 to +85 degrees C
Humidity	95% non-condensing
Mounting	Standard equipment cabinet
Power	90-264 Vac < 5W