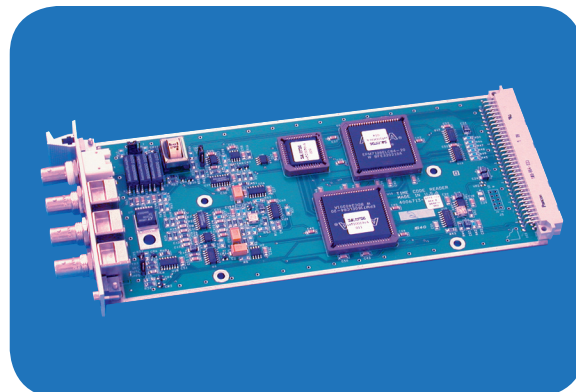


# Time and Frequency Time Code Reader/Synchronizer Module (9000 & 9000S) Model: 9002



## Application - Defense (Military) • SatCom • Wireless

- Range Timing
- Communications Networks
- Satellite Ground Stations
- Test and Measurement Systems



## General Description:

The Model 9002-1 adds time code reader/synchronization capability to the Model 9000. This module reads both modulated and DC level shift time codes. The model 9002-3 provides an optical input in place of modulated or DC inputs. A 1 PPS input when used with the code input provides greater synchronization accuracy. When installed with the Model 9001 GPS Synchronizer, it provides secondary or backup Model 9000 synchronization in case of a GPS failure.

### Specifications: 9002-1 Modulated Code Input/Output

|                   |  |
|-------------------|--|
| Formats:          | IRIG-A, B, G or NASA 36  |
| Frequency:        | 125 Hz to 1.5 MHz (Single Ended)<br>125 Hz to 200 KHz (Transformer in) |
| Level:            | 0.3 to 12 V Peak-to-Peak, Exalted Carrier Cycles                       |
| Modulation Ratio: | 2:1 to 6:1   |
| Impedance:        | 50Ω, Single Ended or 620Ω Transformer Coupled (By Front Panel Set Up)  |
| Polarity:         | Auto, Normal, or Inverted (By Front Panel Set Up)                      |
| Output:           | Buffered Input Code, 50W Drive   |
| Connectors:       | BNC Female   |

### DC Level Shift Code Input

|          |   |
|----------|---|
| Formats: | IRIG-A, B, or G                                 |
| Level:   | Logic "0", 0 to 1.5 V<br>Logic "1", 3.5 to 10 V |

|               |   |
|---------------|---|
| Impedance:    | Greater Than 10 KΩ                                    |
| Connector:    | BNC Female  |
| 1 PPS Input   |   |
| Function:     | When present, becomes precise minor time synchronizer |
| On Time Edge: | Positive Going  |
| Impedance:    | Greater than 10 KΩ                                    |
| Connector:    | BNC Female  |
| Panel Space   | One High  |

### Specifications: 9002-3 Optical Time Code Reader

|              |                                |
|--------------|--------------------------------|
| Input:       | Multimode or Single Mode Fiber |
| Time Code:   | From 9005-10                   |
| Connector:   | ST                             |
| Panel Space: | One U High                     |

Specifications subject to change without notice.

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