



# Model 2070 Series Modems



## FEATURES

- \* 1200 to 19,200 bps
- \* Two modems per card
- \* Front Panel Switches, enable/disable & Power
- \* 170 compatible M14 Connectors
- \* Front Panel LED indicators
- \* Compatible with GDI 400 (2070-6A) , 404 (2070-6AE), 496 (2070-6B) and 419 (2070-6BE) series modems

## Description

The GDI models 2070-6A, 2070-6AE, 2070-6B and 2070-6BE are designed to plug into the H1 slot of the 2070 controller and meet or exceed the March 2009 TEES from CALTRANS. These modems consists of two 1200 baud (2070-6A), two 2400 baud (2070-6AE). two 9600 baud (2070-6B), or two 19,200 baud (2070-6BE) modems on one module. The front panel has two 170 type M14 connectors for easy access. The pin out is exactly the same as the C2 and C20 connectors on the 170 Controller. The front panel Enable/Disable switches allow the EIA-232 ports to be used without interference from the modem.

## Specifications — General

### Environmental Operating Ranges

Temperature Range -37 to +74°C

Humidity 95% non-condensing

**Physical** Plugs into the H1 slot of the 2070 Controller

**Connector Pin-out** Same as the pin-out for the 170 Controller for the C2 and C20 connectors

**Power Requirements** +5V, +12V, -12V from 2070 Controller

GDI Communications LLC  
PO Box 1330, Verdi, NV 89439  
Ph: 775-345-8000 Fax: 775-345-8010 E-mail: sales@sgdi.net



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## Models, Frequencies & Data Rates

Model	Mark Hz	Space Hz	Soft Carrier Hz	Data Rate
2070-6A	1200	2200	900	0-1200
2070-6AE	2400	4400	1800	0-2400
2070-6B	11200	17600	7800	0-9600
2070-6BE	19200	38400	13800	0-19200

## Indicators (for each modem)

XMT	Transmit Data
RCV	Receive Data
DCD	Carrier Detect

## Switches (for each modem)

Power	ON/OFF
Duplex Operation	FULL/HALF
Modem	ENABLE/DISABLE

## On Board Switches (for each modem)

Anti-Streaming	ON/OFF or TXD monitoring
Soft-Carrier Turn-off timing	7 ±2ms
Local Echo	ENABLE/DISABLE

## Timing (Switch Selectable)

RTS—CTS	6 or 12mS ± 2mS
CAR Delay	4 or 8mS ± 2mS
Soft Carrier Off	5 or 10mS ± 2mS
Revtr Squelch	3.25 or 65mS ± 1mS

## Receiver Characteristics

Dynamic Range	+3dBm to -48dBm
Carrier Detect Threshold	-42 ± 3 dBm
Carrier Detect Hysteresis	3dB
Demodulator Distortion	<10% peak
Receiver Frequency Tolerance	2% of operating frequency (minimum)

## Transmit Level

-8 dBm to 0 dBm continuously adjustable.  
Factory setting 0 dBm (600 ohms)

## Serial Interface

Front Panel Connectors	EIA-232C
2070 Interface	EIA-422

## Line Interface

Model	Distance (Private Metallic Wire)
2070-6A	10 to 20 miles
2070-6AE	8 to 15 miles
2070-6B	8 miles
2070-6BE	5 miles

## Model Numbers for Ordering

Card Model	Speed
2070-6A	0-1200 bps
2070-6AE	0-2400 bps
2070-6B	0-9600 bps
2070-6BE	0-19200 bps

Specifications subject to change without notice

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