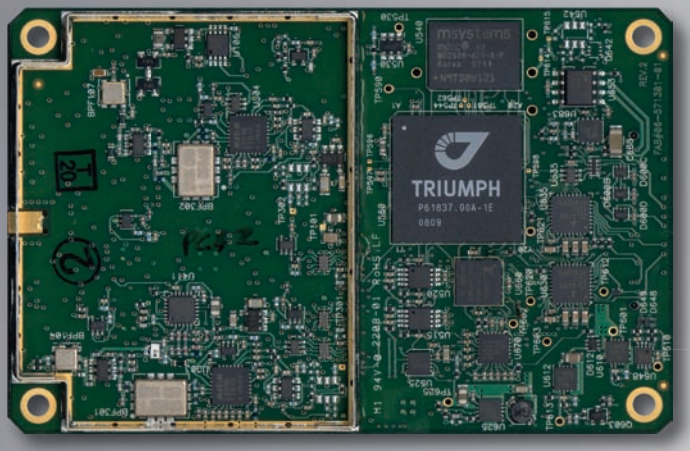
TR-G3T



For operation manuals and other technical documents please see links below.

To update your receiver now (and frequently later) please visit our website and download the latest firmware.

Here are links to the TR-G3T firmware, documentation, and utilities:

- TR-G3T OEM Board Newest Firmware Version
http://www.javad.com/jgnss/support/update.html
- Firmware Loader (Firmware Loading Software) free
http://www.javad.com/jgnss/products/software/firmwareloader.html
- TR-G3T OEM Board Datasheet
http://www.javad.com/downloads/javadgnss/sheets/TR-G3T_Data_Sheet.pdf
- TR-G3T OEM Board Physical Specifications
http://www.javad.com/downloads/javadgnss/sheets/TR-G3T_DRW.pdf
- TriVU (Windows GUI Configuration Utility) free
http://www.javad.com/jgnss/products/software/trivu.html
- GREIS (GNSS Receiver External Interface Specification)
http://www.javad.com/downloads/javadgnss/manuals/GREIS/GREIS_Reference_Guide.pdf

Option Authorization File

JAVAD GNSS issues an Option Authorization File (OAF) to enable the specific options that customer's purchase.

An OAF allows customers to customize and configure the TR-G3T OEM Board according to particular needs, thus only purchasing those options needed.

Typically, all TR-G3T OEM Board receivers ship with a temporary OAF that allows the receiver to be used for a predetermined period of time (typically 60 days). When the receiver is purchased, a new OAF activates purchased options permanently. Receiver options remain intact when clearing the NVRAM or resetting the receiver.

For a complete list of available options and details, consult your dealer, or visit the JAVAD GNSS website

http://www.javad.com/jgnss/products/options/index.html

To load new OAF to receiver use the TriVU software (see link above).

1731 Technology Drive, San Jose, CA 95110 USA
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www.javad.com

TR-G3T

Support Inquiries

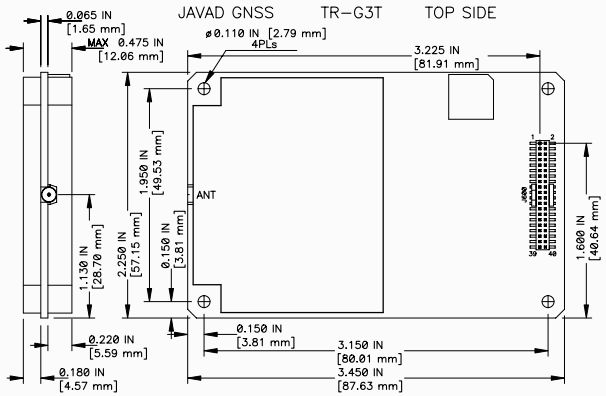
In order to address customer support inquires in a timely and effective manner; JAVAD GNSS has created a powerful online question utility. To take advantage of this utility, please log into your JAVAD GNSS account and select QUESTIONS from the drop down menu.

The questions utility may also be reached by following this link,

http://www.javad.com/cgi-bin/jgnss/cgi?Action=DrawQuestionManager&initFormCurrentSavez=on

When the JAVAD GNSS support team posts a response to your inquiry, an email containing this response is sent to the email address you have registered in your profile.

Description	I/O	Signal Name	Pin #	Pin #	Signal Name	I/O	Description
Power Ground		PGND	1	2	PGND		Power Ground
+4.5 to +40 VDC Power Input	I	PWR_IN	3	4	PWR_IN	I	+4.5 to +40 VDC Power Input
Keep-Alive Power Input for Real-Time Clock (+4.5 to +40 VDC, 10µA typ)	I	KA_PWR	5	6	COMMSW*	I	Active Low Command Input (FN Button) *1
Active Low input for ON/OFF switch *2	I	ONOFFSW *	7	8	FUO		Factory use only, must be left open
Active Low Reset input *3	I	RESET_IN*	9	10	GND		Signal Ground
Serial port A CTS line	I	CTSA	11	12	TXDA	O	Serial port A TXD line
Serial port A RTS line	O	RTSA	13	14	RXDA	I	Serial port A RXD line
Signal Ground		GND	15	16	CTSB	I	Serial port B CTS line
Serial port B TXD line	O	TXDB	17	18	RTSB	O	Serial port B RTS line
Serial port B RXD line	I	RXDB	19	20	LED1_GRN	O	External LED Control *4
External LED Control *4	O	LED1_RED	21	22	LED2_GRN	O	External LED Control *4
External LED Control *4	O	LED2_RED	23	24	IRIG_OUT	O	IRIG port output line *5
USB port Power Input line	I	USB_PWR	25	26	GND		Signal Ground
USB port D+ line	I/O	USB_D+	27	28	USB_D-	I/O	USB port D- line
1 Puls Per Second output *6	O	1PPS	29	30	GND		Signal Ground
Event input *7	I	EVENT	31	32	-		Reserved
Reserved		-	33	34	GND		Signal Ground
CAN port CAN-H line	I/O	CANH	35	36	CANL	I/O	CAN port CAN-L line
RS-422 port TXD+ line	O	TXDD+	37	38	TXDD-	O	RS-422 port TXD- line
RS-422 port RXD+ line	I	RXDD+	39	40	RXDD-	I	RS-422 port RXD- line



*1. Active Low input from the FN button of the MinPad. Internal pull-up 10 kOhm +3.3V. Must be left open if not used.
*2. Active Low input which is equivalent to ON/OFF button of the MinPad. Internal pull-up 10 kOhm +3.3V. The pin must be connected to GND permanently if the board is required to turn on automatically any time external power is applied to pins 3 and/or 4.
*3. Connect to ground to activate. Internal pull-up 2 kOhm to +3.3V.
*4. LED1_GRN and LED1_RED are used to control the STAT LED of the MinPad. LED2_GRN and LED2_RED are equivalent to the REC LED of the MinPad. The output is a +3.3V driver in series with 100 Ohm resistor for each LED. LEDs should be with common cathode.
*5. AM sine-wave signal; 2.1Vp-p (Mark), 0.7Vp-p (Space).
*6. Voh > 2.0V at 50 Ohm load.
*7. Internal pull-up 5 kOhm to +3.3V
Digital connector: Micro Header, 2x20 pos, 0.050" pitch. Samtec p/n FTSH-120-01-L-DV-K-A.
RF connector: MMCX Jack, edge mount. Amphenol p/n 908-22100. The central pin of the connector is power supply for LNA, +5 VDC with sourced current up to 0.1A.

Read this First

Revision 1.3
March 11, 2009