



Testing Tomorrow's Technology

**FCC Part 24E and Part 22H, Certification Application
of the
Sicom test s.r.l.
Model: GM862-QUAD / GM862-QUAD-PY
Modular Transmitter**

**Issue Date: April 18, 2006
UST Project No.: 06-0011**

**3505 Francis Circle Alpharetta, GA 30004
PH: 770-740-0717 Fax: 770-740-1508
www.ustech-lab.com**

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SECTION 1

GENERAL INFORMATION

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GENERAL INFORMATION

1.1 Product Description

The Equipment Under Test is the Telit. GM862-QUAD Quad Band GSM-GPRS Data Terminal Module. The EUT is a small, lightweight and low power consumption device. Powered at 3.7 volts and socket mounted. Can be supplied with onboard memory from 4 to 8 MB. A commercial version of the device, named GM862-QUAD-PY, is supplied with 8 MB of memory and the python interpreter installed.

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1.2 Related Submittal(s)/Grant(s)

The EUT is subject to the following authorizations:

- a) Certification as a transceiver as specified by Part 24E and Part 22H.

The information contained in this report is presented for the Part 24E and Part 22H Certification authorization(s) for the EUT.

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SECTION 2

TEST AND MEASUREMENTS

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TEST AND MEASUREMENTS

2.1 Configuration of Tested System

Prepared in accordance with the requirements of the FCC Rules and Regulations Part 2, 22 & 24. All measurements are peak unless stated otherwise. The video filter associated with the spectrum analyzer was off throughout the evaluation process. Interconnecting cables were manipulated as necessary to maximize emissions. A block diagram of the tested system is shown in Figure 1. Test configuration photographs for spurious emissions are shown in Figure 2.

The sample used for testing was received by U.S. Technologies on February 13, 2006 and March 14, 2006 in good condition.

2.2 Test Facility

Testing was performed at US Tech's measurement facility at 3505 Francis Circle, Alpharetta, GA. This site has been fully described and registered by the FCC under Registration Number 91037. Additionally, this site has also been fully described and submitted to Industry Canada (IC), and has been approved under file IC2982.

2.3 Test Equipment

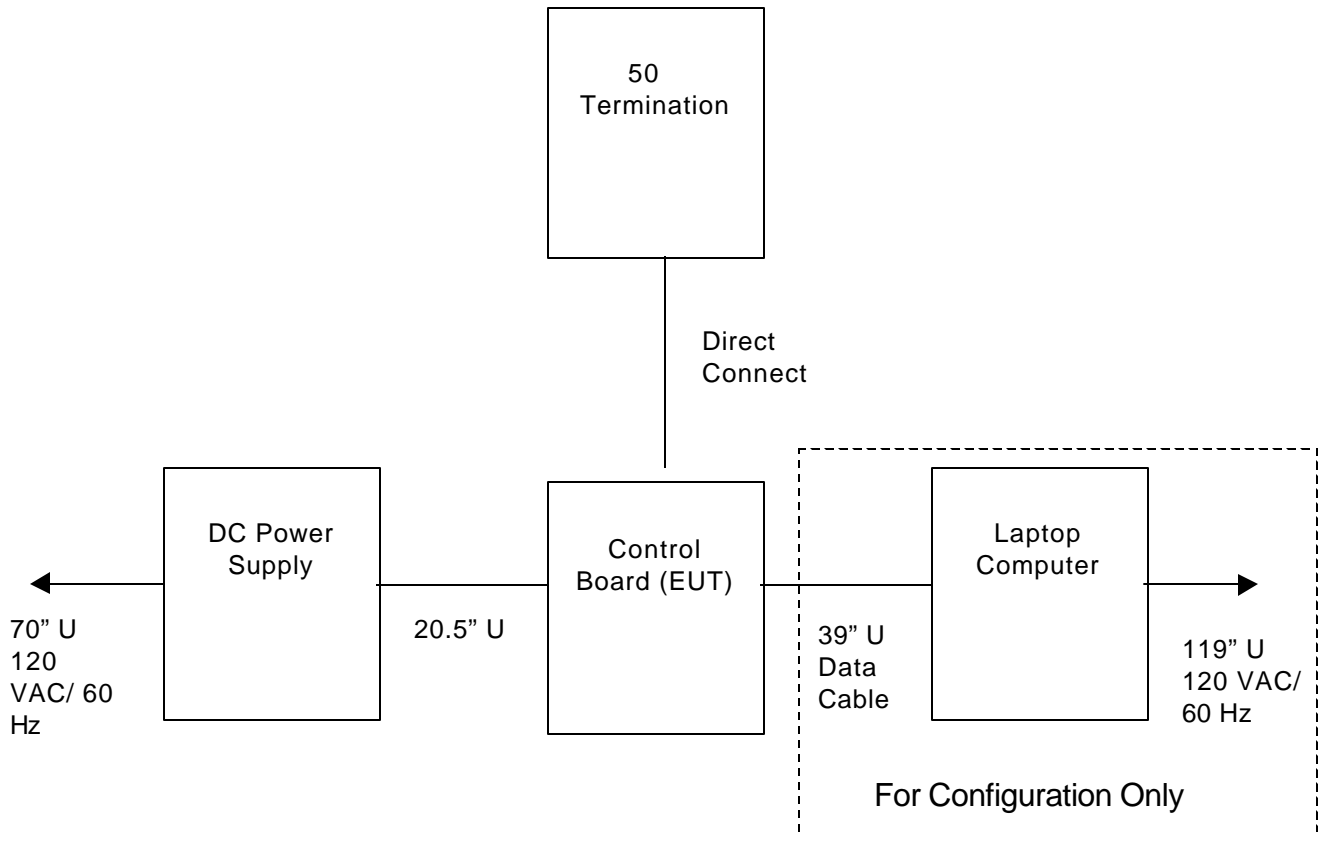
Table 2 describes test equipment used to evaluate this product.

2.4 Modifications

No modifications were made by US Tech to bring the EUT into compliance with FCC Part 24E and Part 22H limits for the transmitter portion of the EUT.

FIGURE 1

TEST CONFIGURATION



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FIGURE 2a

Photographs for Spurious Emissions EUT Front



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FIGURE 2b

Photographs for Spurious Emissions EUT Back



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TABLE 1**EUT and Peripherals**

PERIPHERAL MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID:	CABLES P/D
Sicom test s.r.l. (EUT)	GM862-QUAD / GM862- QUAD-PY	None	None	None
50 Termination	None	None	None	None
DC Power Supply Hewlett Packard	HP Power Supply E3610A	GE13499	None	20.5" U 70" U 120 Ac / 60 Hz
Laptop Computer Compaq Armada	Bay Station	6929BWY1056	None	39" U Data Cable 119" U 120 VAC / 60 Hz

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TABLE 2
TEST INSTRUMENTS

EQUIPMENT	MODEL NUMBER	MANUFACTURER	SERIAL NUMBER	DATE OF LAST CALIBRATION
SPECTRUM ANALYZER	8593E	HEWLETT-PACKARD	3205A00124	7/5/05
HORN ANTENNA	SAS-571	A.H. Systems	9107-3723	04/1/05
SIGNAL GENERATOR	83630B	HEWLETT-PACKARD	3722A00515	3/15/06
RF PREAMP	8449B	HEWLETT-PACKARD	3008A00480	6/30/05
LOG PERIODIC ANTENNA	3146	EMCO	9110-3236	09/19/05
CALCULATION PROGRAM	N/A	N/A	Ver. 6.0	N/A