

3. NOTES FOR SIMCHECK USERS

3.1 THE EVOLUTION OF SIMCHECK II

SIMCHECK II and SIMCHECK II se are the next generation of our SIMCHECK product line, and while enhancing the performance level and user interface capabilities by an order of magnitude, we put a lot of efforts to preserve the features that made our original SIMCHECK PLUS line so popular.

As a veteran user of SIMCHECK you should be able to use SIMCHECK II almost in no time. We have kept the test flow order of BASIC test, EXTENSIVE test, AUTO-LOOP test, and the SINGLE BIT test. For most users, all they need to do is to insert a module and press F1. We still use the same high quality ZIF sockets. Many of the time proven test algorithms of SIMCHECK have been ported to the new SIMCHECK II platform. The highly modular structure has been preserved, although SIMCHECK II now supports both 30 and 72 pin SIMMs without the need of the 40-BIT PORT.



You cannot use the SIMCHECK PLUS power supply on SIMCHECK II or vice versa as polarity has been switched.

Many of the existing adapters of the original SIMCHECK PLUS are still operable on the SIMCHECK II, since it has a similar 90 pin expansion slot similar to the one used by the 40-BIT PORT. The old individual chip adapters (DIP, SOJ, PLCC, TSOP) can be connected to SIMCHECK II with the use of the optional SIMCHECK II SIP Adapter (p/n INN-8558-1 -Section 8.6).

SIMCHECK II comes with a universal (100-240 VAC 50/60Hz) power supply and is readily available for both domestic and export markets.

3.2 KEY ENHANCEMENTS OF SIMCHECK II

The following is a summary of the key enhancements of SIMCHECK II over our previous SIMCHECK/SIMCHECK PLUS line:

- Built in processor has been upgraded to a fast 32-bit 486 type processor to tackle the task of testing today's and tomorrow's large memory devices.
- 16 Row/16 Column address driving capability for up to

4Gx40 memory testing (Extended with low cost adapters to 4Gx80 and more).

- SIMCHECK II has a 1nS resolution.
- Includes Cycle Time measurement.
- Advanced Parameter and Patterns Settings.
- Enhanced Graphic Features.
- Detailed Test Log records all the test results.
- Built in Serial Interface.
- Firmware upgrade through the Internet.
- SIMCHECK II comes with the Realtime Interface PC program for printing and data logging capabilities.

3.3 SIMCHECK II se VERSUS SIMCHECK II

SIMCHECK II se is a lower cost derivative of the SIMCHECK II.

Equipped with the same fundamental electronics and abilities as the SIMCHECK II, the new SIMCHECK II se features high speed testing, detailed test information on an advanced graphic display, and state-of-the-art timing technology.

The following table compares SIMCHECK II se with SIMCHECK II:

Feature	SIMCHECK II	SIMCHECK II se
Compact and Stand Alone/ Portable	✓	✓
Built-in 32-bit Processor for fast Test Times (e.g. 4Mx32 tests in 3.5 seconds)	✓	✓
INNOVENTIONS 3 rd Generation Test Algorithms	✓	✓
Large Memory Support up to 4G Modules	✓	✓
Advanced Graphic Display	✓	✓
Cycle Time Measurement	✓	✓
Automatic EDO/FAST PAGE mode detection	✓	✓
Built-in Serial Interface and Flash EPROM for upgrades through the Internet	✓	✓
Realtime Interface to the PC	✓	✓
SDRAM Support via the optional Sync DIMMCHECK 168 Adapter	✓	✓
90-pin Expansion Slot for Add on products	✓	✓
3.3V/5V Voltage Support	✓	✓
Standard Size/Speed/Voltage Setup	✓	✓
72-pin SIMM Test Socket	✓	✓
30-pin SIMM Test Socket	✓	NO (note 1)
Speed Resolution	1 nS	2-3 nS (note 2)
On-the-Fly Parameter Changes	✓	NO (note 3)
Advanced Setup (including Trcd / Trah Setup, Testflow Setup, Pattern Setup, Mode Setup)	✓	NO (note 3)
Optional Automatic Handler Support	✓	NO (note 4)
Carrying Case	✓	NO (note 5)

UPGRADE NOTES:

1. SIMCHECK II se upgrade: order p/n INN-8558se-1.
2. SIMCHECK II se upgrade: order p/n INN-8558se-2.
3. SIMCHECK II se upgrade: order p/n INN-8558se-3.
4. Requires complete upgrade to the SIMCHECK II level.
5. Order carrying case p/n INN-8558se-CC.

You can upgrade SIMCHECK II se to the SIMCHECK II level at any time, as illustrated by the upgrade notes above.

Advanced and Standard Setup

As stated in the table, the Advanced Setup, which is described in Section 6 of this manual, is not activated for the SIMCHECK II se. When activating a function that is not supported, the SIMCHECK II se will display the following messages:

```
This SETUP feature
is not supported on
SIMCHECK IIse. You
can review it now...
```

```
A program upgrade to
the full SIMCHECK II
level is available
from your dealer.
```



Sections pertaining to features that are not available on SIMCHECK II se will have this symbol.

This manual covers the operation of both the SIMCHECK II and the SIMCHECK II se. You may review all the menus of the advanced setup in accordance with the instructions in the manual, however, any setting you select from screens preceded by the above message, will not take affect on the SIMCHECK II se.

The standard Setup, which includes Size Setup (Sec. 6.3.1), Speed Setup (Sec. 6.3.2.1), Voltage Setup (Sec. 6.3.3), and the Configuration Setup (Sec. 6.5), **is fully available for SIMCHECK II se**. The Change-On-The-Fly function is part of the Advanced Setup and is therefore not available for the SIMCHECK II se.

Product Information Display

A Product Information Display Screen shows which available program features are enabled or disabled in your SIMCHECK II se.

```
PRODUCT INFORMATION: ↑
SIMCHECK II se
1ns RESOLUTION: OFF
ADVANCED SETUP: OFF ↓
```

```
SERIAL #12864
VERSION=1.49
Date=06/09/00
KERNEL VERSION=3 ↓
```

```
HARDWARE VER.:2.02
ALT. PARTS=02
PAL CODE=00
ADAPTER CODE=44 ↓
```

```
MIN_UWRT=40 ↓
```

Entering the following key sequence accesses the Product Information Display:

- F2** Enter SETUP Mode
- F3** Enter CONFIGURATION Setup
- F4** More
- F4** Product Information

This display is a scrollable window, so you may use the \uparrow or \downarrow keys to view the information.

SIMCHECK II se Program Module Upgrades

We offer two optional program module upgrades for the SIMCHECK II se. An activation program is available that will enable these features. The program is sent via the SIMCHECK II downloader in the same manner as a normal program upgrade with exception that the downloaded file is a special activation code (Please refer to Sec. 7.1.1 for information on upgrading SIMCHECK II's firmware).

```
ACTIVATION CODE FOR:
1nS Resolution
F1 CONTINUE.. E3 ABORT
```

Please contact your dealer for additional information on each of these upgrades.

ONE NANO-SECOND SPEED RESOLUTION MODULE

(p/n INN-8558se-2)

Enables 1nS resolution for access time measurements instead of SIMCHECK II se 2-3 nS resolution. If a module upgrade is purchased, the above mentioned information screen will change to reflect the additional features.

```
PRODUCT INFORMATION:
SIMCHECK II se
1nS RESOLUTION: ON
ADVANCED SETUP: ON
```

ADVANCED SETUP MODULE (p/n INN-8558se-3)

Enables the Advanced Setup for your SIMCHECK II se. This includes the various features described in Section 6, including Change-On-The-Fly, Trcd and Trah Setup, and more.

Other SIMCHECK II se Additions

Adapter for 30-pin SIMM testing (p/n INN-8558se-1)

Carrying Case for SIMCHECK II se (p/n INN-8558se-CC)

Also available for the SIMCHECK II se is a FULL FACTORY UPGRADE to SIMCHECK II, including a new enclosure, label replacement, and the addition of all sockets. For more information, please contact your dealer for details.