ExpressCard 54 – SCR3340

Next Generation PC Card Technology

Overview

SCM Microsystems' new SCR3340 ExpressCard™ reader represents the next generation of PC Card technology. Users are able to add flash memory, wired and wireless communications, multimedia and security features by inserting ExpressCard modules into compliant host systems.

The ExpressCard™ modules are smaller and compacter than today's PC Card. Furthermore, they allow manufacturers to quickly qualify and easily integrate the new form factor, which is based on the ubiquitous USB interface standard and brings all related benefits, including high-speed performance, reliability and proven technology. The reader is based on SCM's STC II controller chip, an embedded, single chip solution for smart card readers that supports multiple interfaces, multiple reader devices and all relevant security standards. The STC II chip was the industry's first to offer On-board Flash, allowing future firmware and application enhancements.

SCR3340 Benefits

• Firmware field upgrades to prevent obsolescence
• A smaller and faster PC Card solution
• Suitable for both mobile and desktop systems
• USB 2.0 full speed and CCID, compliant leveraging existing and proven technology
• Lower system and card complexity
• A very easy way to add hardware or media to the system

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Technical Data

Host Interface	• ExpressCard 54 • Full speed USB 2.0 (12 Mbps) • CCID compliant
Smart Card Interface	• T=0, T=1 protocol support • Memory card support through SCM MCard API • Communication speed up to 344,105 bps (DI) • Frequency up to 8 MHz (FI) • Support ISO 7816 Class A and AB smart card
Smart Card Connector	• 8 contacts - ISO location • 100,000 insertions • Sliding contact
Dimensions	• ExpressCard 54 (LWH 75x54x5), weight 25 gram
Operating Temperature	• 0° to 50° Celsius, 95% humidity non-condensing
OS	• Windows® XP, Server2003 (32 and 64 bits)
API	• PC/SC • CT-API (thru wrapper on top of PC/SC)
Approvals	• FCC Class B part 15, UL, CE • VCCI, BSMI, Australia/NZ, MIC-Korea on request • Microsoft® WHQL 2000, XP, Server2003 • ExpressCard • EMV 2000 Level 1
Environmental	• RoHS • WEEE
Life/Reliability	• > 100,000 hrs as per MIL-HDBK-217F

Technical data are subject to change without notice.

The SCM Microsystems' Advantage

SCM Microsystems brings over a decade of experience in ASIC and smart card reader development to this unique product. With its dedicated Research and Development team and a true global presence, SCM Microsystems delivers high quality products catering to the various requirements in the security field. SCM offers customization of products to suit application needs.

Typical advantages of an SCM Microsystems product include:

• More than 50 patents

• High quality mass production capability

• Industry endorsed SmartOS™ middleware

• Support for all current and emerging international standards

• Customer base of global, top tier PC OEMs, systems integrators and smart card industry leaders

• Direct significant long-term relationships with all leading smart card manufacturers and application providers