mHealth
Intelligent Cellular Connectivity for Health, Wellness & Assisted Living

www.cinterion.com/mHealth
CINTERION is at the forefront of the mHealth movement and has been a consistent M2M industry leader since its inception in 1995. CINTERION’s broad portfolio includes GSM, GPRS, EDGE, UMTS and HSPA products and serves all medical industry requirements—from small form factor modules easily integrated in existing connected solutions, to scalable platform modules with M2M-optimized Java™ for onboard processing and secure over-the-air updates. CINTERION-powered medical monitoring solutions allow complete mobility for patients and healthcare providers.

With CINTERION M2M technology, vital patient data is transmitted securely over wireless networks utilizing the latest encryption technologies and security mechanisms inherent in modern cellular networks. Cellular M2M has technology advantages over WiFi through the regulated frequency bands that eliminate interference, built-in security and Quality of Service (QoS) inherent to the standards.

CINTERION’s market-proven technology is highly reliable for seamless, always-on worldwide communications enabling truly global health care solutions. The company’s strong reputation for reliability is achieved through strict quality management and the highest manufacturing standards which include full traceability.
CINTERION’s M2M technology extends the reach of ambient assisted living (AAL) homecare systems to any location where cellular coverage is available. Inconspicuous, easy to use M2M telemonitoring devices utilize mobile, wireless sensors to remotely monitor and communicate patients’ vital health parameters, whether at home or on the go. AAL devices can also offer behavioral monitoring and, when needed, automatically call for help in real time, which allows for faster reaction times and can ultimately help save lives.

New Services and Business Models

mHealth and CINTERION modules can provide solutions to the challenges faced by healthcare providers today and in the future. Optimized, integrated mobile care can reduce costs through shorter hospital stays, increased productivity for medical staff and doctors while improving quality of medical services and overall health for patients. With market leader CINTERION as a technology partner, healthcare businesses can extend and enhance their range of services and increase benefits for end users. It’s clear that mHealth helps companies gain competitive advantages in this quickly evolving business landscape.

Improved Chronic Disease Management and Quality of Care

Today, chronic diseases such as diabetes, heart disease, hypertension, sleep apnea, pulmonary conditions and other recurring diseases top the list of health threats worldwide. The cost of managing chronic conditions such as these accounts for an estimated two-thirds of worldwide healthcare spending, a figure mHealth solutions aim to reduce. With CINTERION-enabled telemonitoring devices, a consulting physician can remotely monitor a patient’s health status and chronic condition in real time and immediately react in case of emergency — no matter if the patient is at home, on the bus, at the movies or anywhere in the course of daily life. Consistent and real time oversight greatly improves ongoing treatment, keeps patients healthier and avoids expensive hospitalization. In fact, a recent study by Philips showed impressive results and benefits gained from telehealth solutions:

<table>
<thead>
<tr>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>89% of health agencies reported an increase in quality outcomes</td>
</tr>
<tr>
<td>76% cited reduction in unplanned hospitalizations</td>
</tr>
<tr>
<td>77% cited reduction in ER visits</td>
</tr>
<tr>
<td>76% reported patients improving self care by proactive disease management</td>
</tr>
</tbody>
</table>
Award-Winning Expertise

CINTERION has been honored with many prestigious awards for industry-leading mHealth applications including:
- GSMA’s Best Embedded End-to-End Service Award
- Connected World’s Value Chain Award
- Oracle’s Duke’s Choice Java Innovation Award
- Two Mobile Health Expo Awards for Best Mobile Healthcare Device

CINTERION is an active member of the Continua Alliance, a coalition of the finest healthcare, technology and service provider companies around the world working together to further global interoperable personal health solutions and standards. In addition, CINTERION is a regular contributor to the GSMA mHealth Working Group, which aims to catalyze the expansion of the global mHealth sector.

CINTERION is the worldwide leading supplier of cellular machine-to-machine (M2M) communication modules and combines unparalleled M2M engineering expertise and localized worldwide customer support with a strong portfolio of high-quality GSM, GPRS, EDGE, UMTS and HSPA products. CINTERION is a reliable partner and valued by many vertical market customers for its award-winning modules which enable machines, equipment and vehicles to communicate over wireless networks helping enterprises dramatically cut costs and increase productivity and efficiency. CINTERION products are carrier and FTA approved and used for industries including: healthcare; automotive and eToll; metering; remote maintenance and control; payment systems; routers and gateways; security systems; tracking and tracing; environmental monitoring and more. CINTERION is part of the Gemalto group (Euronext NL 0000400653 GTO), the world leader in digital security with 2009 annual revenues of €1.65 billion, and over 10,000 employees operating out of 75 offices, with research and service centers in 41 countries.

With CINTERION’s M2M technology, medical devices and wellness applications can send and receive critical data securely and reliably over wireless mobile networks utilizing the latest encryption technologies. CINTERION’s market-proven technology is flexible and highly reliable for seamless, always-on worldwide communications that make global healthcare solutions a reality. Cinterion’s quality management system and processes are compliant to VDA6.2 and ISO/TS 16949 and are certified according to ISO 9001 by TÜV Germany.

The information provided in this brochure contains merely general descriptions or characteristics of performance, which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. All product designations may be trademarks or product names of Cinterion or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.