

# Machine-to-Machine SIM cards designed for your needs



An essential part of Machine-to-Machine (M2M) communication solutions is the SIM (Subscriber Identification Module): without SIM, no GSM, GPRS, SMS or UMTS communication. As part of its M2M solutions portfolio KPN offers tailored versions of these SIMs modules, specifically designed for various M2M applications and environment of use.

Our product line consists of 'business grade' plastic SIM cards, industrial SIM cards, SIM's that can be soldered on the Printed Circuit Board (PCB) and SIM's directly integrated in the GSM/GPRS modem. These latter products

are specially developed for the M2M market, having durability and dimensions specifications suitable for potential harsh environments of use.



### Business grade SIM cards

Standard SIM cards with durability guarantees applicable for usage in regular mobile handsets by end-consumers.

### Industrial SIM cards

SIM cards with the same form-factor as business grade ones, but with fundamental differences in durability and guarantees. Having this identical form-factor, they can be used in most M2M applications deployed today, but their special coating and enhanced chip characteristics limit erosion. These SIM's have been specially designed for intensive use and offer a longer usage life-span.

### Weldable SIM's

To meet even more stringent durability requirements, KPN's offering includes chip-SIM's in its portfolio: These SIM modules do not only have more extensive durability in temperature range and life span than industrial SIM cards, but, they are also designed to be welded directly to the Printed Circuit Board (PCB). This ensures a more durable and secure solution, less prone for theft and consequently fraudulent usage of your connectivity subscriptions. This form factor also provides an interesting way to streamline logistics by integrating the SIM at an early stage in the manufacturing process.

### Integrated SIM

The most advanced SIM form factor in our offering is specifically designed for M2M ultimate requirements: SIM cards are directly welded on the wireless modem module itself. KPN, together with one of its module manufacturer partners, will then deliver the most durable and stable technical solution available today. This will not only offer a fully secure configuration but also ensures an optimal usage of available space, especially designed for new M2M segments (like Consumer Electronics or Healthcare) having space restriction constraints.

### More information?

- Get in contact with our dedicated M2M team at [M2M@kpn.com](mailto:M2M@kpn.com)
- Go to [www.kpn.com/M2M](http://www.kpn.com/M2M)