

# CM40/CM60 3G and 4G MODEM

**for MSC and LVM  
concentrators**

The CM wireless modems, in the 40 and 60 versions, are used for the remote reading of electric meters.

They are born as **accessories of MSC and LVM concentrators** and perform the function of data communication on **3G and 4G network** without requiring connections to other external modems.

They are easily installed by interlocking (i.e. **plug-in**) in the concentrator, thus also avoiding the use and installation of additional cables.

Robust and reliable, it is equipped with procedures that always keep it always-on.

Thanks to the CM modems, **with a simple gesture** the concentrator is enabled to communicate data on the GSM / GPRS / UMTS networks to one or more control centers: just add the SIM card.



**meters**  
AND **more**  
OPEN TECHNOLOGIES  
ASSOCIATED MEMBER



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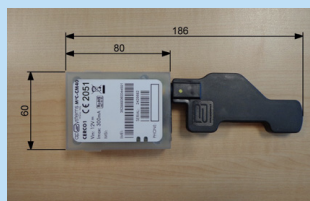
## MAIN FEATURES

- HSDPA / WCDMA / EDGE / GSM / GPRS / UMTS data communication with advanced features
- HSDPA / WCDMA / EDGE / GSM / GPRS / UMTS communication management based on carrier availability criteria.
- Remote Software Download (software update from the Control Center via HSDPA / WCDMA / EDGE / GSM / GPRS / UMTS data transmission).
- RS-232 serial interface for connection to the M<sup>3</sup>C-CB10 data concentrator.

**plug-in  
for MSC and LVM  
concentrators**

## PRODUCT MAIN CHARACTERISTICS

<b>radiomodem</b>	SCB204 control logic complete with DC / DC switching converter with 12V input and 3.6V output. Wireless UMTS-based modem with data connection with HSDPA, WCDMA, EDGE and GPRS networks
<b>case</b>	Bottom mechanics and cover in Lexan Lux7189 IP kit
<b>connections</b>	8 + 8 pole male connector 2.54mm pitch for power supply and DTE 1 coaxial connector type SMA female for antenna SIM tray
<b>antenna</b>	Omnidirectional GSM / UMTS dipole mod. T-AT188



## RELIABILITY

<b>MTBF</b>	> 88.000 h @ 25 °C
<b>Failure rate (FIT)</b>	< 0,3% per year
<b>Lifetime</b>	> 10 years



## ENVIRONMENTAL FEATURES

<b>operating temperature</b>	from -25°C to +70°C
<b>storage temperature</b>	from -40°C to +85°C
<b>relative humidity (non-condensing)</b>	20-90% RH @ 50°C
<b>relative humidity (non-condensing)</b>	95% RH @ 50°C for 30 days distributed during the year

## ELECTRICAL FEATURES

	min	typical	max	unit
<b>supply voltage</b>	5	12	15	Vdc
<b>maximum current in Tx</b>			300	mA
<b>average current in Rx</b>	60		65	mA
<b>SIM power supply</b>		3		Vdc

## MECHANICAL FEATURES

<b>dimensions</b>	80x60x30mm (excluding antenna connector)
<b>antenna dimensions</b>	106x48x12mm
<b>weight</b>	100g, antenna included
<b>modem casing material</b>	Lexan Lux7189
<b>antenna casing material</b>	Nylon 6
<b>protection</b>	IP40

## APPROVALS

<b>reference directive</b>	EC-R&TTE 99/5/CE
<b>standards</b>	FULL TYPE APPROVAL – ETSI GSM Fase II e Fase II+  EN 60950-1 (versione 2001) for electrical safety  ETSI EN 301 489-7 per EMC EN 301 511 V9.0.2 per EMC EN 61000-4-2 for electrostatic discharges  RoHS Dir. 2002/95/EC RAEE Dir. 2002/96/EC



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