

## New Products 2010/11 - by MC Technologies

### MC Technologies MC88i Terminal with EGS5 inside

- JAVA for various applications
- Advanced features for M2M solutions
- Quadband (850/900/1800/1900 MHz)
- Java IMP-NG Virtual Machine open platform
- GPRS Class 12 for both 86 kbps (uplink/downlink)
- TCP/IP over AT Command Set
- Included "WatchDog" and "always on" functions
- USB-interface



### MC Technologies MC66 Terminal with BG2 inside

#### GSM/GPRS data terminal for industrial applications

- Dualband (900/1800 MHz) MC66-E
- Quadband (850/900/1800/1900 MHz) MC66-W
- GPRS multi-slot class 10 (MC66-W)
- GPRS multi-slot class 8 (MC66-E)
- TCP/IP stack access via AT commands
- Interfaces: RS232, Power supply, SIM card reader, antenna connector (FME)



### MC Technologies HC25 / HC28 Terminal

#### UMTS Terminal, whatever supports the HSDPA standard

- Triband UMTS/HSDPA 850/1900/2100 MHz  
Quadband GSM 850/900/1800/1900 MHz
- EDGE (E-GPRS) multi-slot class 10
- GPRS multi-slot class 10
- UMTS: max. 384 kbps (DL & UL)
- HSDPA: max. 3.6 Mbps (DL), max. 384 kbps (UL)
- Interfaces: RS232, USB, Power supply, SIM card reader, antenna connector (FME)
- HC28 only for the japanese market**



### MC Technologies PH8/AH6 Terminal

- PH8:** Fiveband UMTS/HSPA+ 800/850/1900/AWS/2100 MHz  
Quadband GSM/GPRS/EDGE 850/900/1800/1900 MHz
- AH6:** Fourband UMTS 800/850/900/2100 MHz  
Quadband GSM/GPRS/EDGE 850/900/1800/1900 MHz
- EDGE multi-slot class 12
- GPRS multi-slot class 12
- UMTS: DL/UL: max. 384 kbps
- HSPA+: DL: 3.6 / 7.2 / 14.4 Mbps, UL: 2.0 / 5.67 Mbps (PH8/AH6)
- GPS



available Q3/2011

## Products for special solutions

### MC Technologies PC104 Card

#### GSM/GPRS Terminal for PC104 Systems

#### Supported GSM services

Data, Fax, SMS, GPRS

#### Supported interfaces:

COM 1 to COM 12

#### Supported Interrupts:

IRQ3, IRQ4, IRQ5, IRQ6, IRQ7, IRQ9, IRQ10, IRQ11, IRQ12, IRQ14, IRQ15 (also Shared-Interrupt)

#### Execution:

PC104 Standard 16-bit Module

Available with Cinterion MC75i, TC65i, TC63i, MC55i and TRM3



### MC Technologies PCI Card

#### GSM/GPRS Terminal for the PCI bus

PCI card for office and industrial PC with PCI bus.  
„Low profile“ available on request.

Available with the Cinterion modules

AC75i, AC65i, MC75i, TC65i, TC63i



### MC Technologies PH8 PCI-Card

The PH8 UMTS/HSPA wireless module offers the perfect solution for the challenging long-term requirements of industrial applications

#### Features:

- UMTS/HSDPA: Fiveband
- GSM/GPRS/EDGE: Quadband
- GPRS / EDGE Multislot Class 12)
- HSDPA: DL: 3.6/7.2/14.4 Mbps, UL: 2.0/5.67 Mbps
- UMTS: 384 kbps DL & UL



available Q3/2011

### MC Technologies TM Terminal

Hardware module for the integration directly on printed circuit boards or wired to the main application

Easily integrable board (OEM) to add GSM, GPRS, EDGE and GPS connectivity and functions to new and existing applications. Compact, including power regulation, SIM card holder and miscellaneous inputs and outputs on plug or solder connectors.

Available with Cinterion AC75i, AC65i, MC75i, TC65i, TC63i, EGS5, EES3, EGS3, XT75, XT65, MC55i and GSM-R modul TRM3



Subject to changes in technology, design and availability

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## Developments - Overview -



### MC Technologies MC88i Terminal

#### GSM/GPRS M2M JavaTerminal

Universal Industrial Terminal with EGS5 inside



### MC Technologies Terminals

#### GSM/GPRS Terminal

Available with the Cinterion modules AC75i, AC65i, MC75i, TC65i, TC63i, EES3, EGS3, XT75, XT65, MC55i and GSM-R modul TRM3

### MC Technologies

#### GSM/GPRS/GPS Terminal

#### Track and communication data module

Available with the Cinterion modules XT65, XT75



### MC Technologies

#### GPIO Terminal

#### Java-Terminal with GPIO-Adapter

Available with the Cinterion modules XT65, XT75, TC65i



### MC Technologies

#### UMTS HSDPA Terminal

#### UMTS Terminal, whatever supports the HSDPA standard

Available with the Cinterion modules HC25, HC28, PH8, AH6



### MC Technologies

#### RS485 Terminal

#### Quadband GSM/GPRS Terminal with RS232 and RS485 interface

Available with the Cinterion module TC65i



### MC Technologies PCI Card

#### GSM/GPRS Terminal for the PCI bus

Available with the Cinterion modules AC75i, AC65i, MC75i, TC65i, TC63i, PH8



### MC Technologies PC104 Card

#### GSM/GPRS Terminal for PC104 systems

Available with the Cinterion modules MC75i, TC65i, TC63i, MC55i and GSM-R modul TRM3



## NEW Cinterion EU3 / PH8

- Fiveband UMTS/HSPA+ / Quadband GSM (PH8)
- Dualband UMTS/HSDPA/GSM (EU3)
- GPRS / EDGE Class 10 (EU3) / Class 12 (PH8)
- Full Voice Support
- GPS (PH8), USB
- Extended Temperature Range



## Cinterion HC25 / HC28 / HC28-J

- HSDPA 3.6 Mbit/s / UMTS 384 kbps DL & UL
- HC25/28:** Triband HSDPA/UMTS: 850/1900/2100 MHz  
Quadband GSM/GPRS/EDGE:  
850/900/1800/1900 MHz



- HC28-J:** Dual-Band HSDPA/UMTS/GSM: 800/2100 MHz
- GPRS / EDGE Multislot Class 10
- Extended Temperature Range: -30°C to +75°C (restricted operation)
- GPS (**HC25**)
- Full voice and data support

## Cinterion XT75 / XT65

### XT75/65 wireless module features:

- GPS receiver (16 channels)
- Quadband GSM (850/900/1800/1900 MHz)
- EDGE (E-GPRS) multi-slot class 10 (XT75)
- GPRS multi-slot class 12
- JavaTM IMP-NG
- Integrated TCP/IP stack
- RIL driver for Microsoft® Windows Mobile™ based devices
- RLS Monitoring for Jamming detection
- Industrial Interface



## Cinterion MC55i

### MC55i wireless module features:

- GPRS Class 10 for 43 kbps in uplink and 86 kbps in downlink
- Quadband (850/900/1800/1900 MHz)
- 50 pin B2B connector
- RIL driver for MS Windows Mobile 6.1 based devices
- TCP/IP over AT
- Two serial interfaces
- Extended temperature range: -40°C to +70°C



## Cinterion MC52i / MC55i Terminal

### MC52iT/MC55iT wireless module features:

- MC52iT: Dualband (900/1800 MHz)  
MC55iT: Quadband (850/900/1800/1900 MHz)
- GPRS multi-slot class 10  
DL: max. 85.6 kbps, UL: max. 42.8 kbps
- TCP/IP stack access via AT commands
- Operating temperature: -20°C to +65°C
- Serial interface modem driver for Microsoft® Windows 7™, Windows XP™ and Windows Vista™
- Interfaces: Antenna connector FME (male), power supply (Western jack), Handset analog audio interface, Mini-SIM card reader, 1.8 V and 3.0 V, V.24/V.28 RS-232 interface (D-Sub 9-pole female), Operating status LED



## Cinterion MC75i / TC63i / TC65i

### MC75i wireless module features:

- EDGE Class 12 for both 236 kbps (uplink/downlink)
- GPRS Class 12 for both 86 kbps (uplink/downlink)
- Quadband (850/900/1800/1900 MHz)
- 80 pin B2B connector
- RF connector
- Additional antenna soldering pad
- TCP/IP over AT
- RIL driver for MS Windows Mobile 6.1 based devices
- USB, I2C, SPI, two serial interfaces
- Extended temperature range: -40°C to +75°C
- Radio Link Stability (RLS) monitoring (e.g. for jamming detection)
- Remote SIM access



### TC65i wireless module features:

- GPRS Class 12 for both 86 kbps (uplink/downlink)
- Quadband (850/900/1800/1900 MHz)
- 80 pin B2B connector
- RF connector
- Additional antenna soldering pad
- TCP/IP over AT
- Java IMP-NG Virtual Machine open platform
- USB, I2C, SPI, two serial interfaces
- Extended temperature range: -40°C to +75°C
- Radio Link Stability (RLS) monitoring (e.g. for jamming detection)
- Remote SIM access

### TC63i wireless module features:

- GPRS Class 12 for both 86 kbps in uplink and downlink
- Quadband (850/900/1800/1900 MHz)
- 80 pin B2B connector
- RF connector
- Additional antenna soldering pad
- TCP/IP over AT
- USB, I2C, SPI
- Two serial interfaces
- Extended temperature range: -40°C to +75°C
- Radio Link Stability (RLS) monitoring (e.g. for jamming detection)
- Remote SIM access

## Cinterion AC75i / AC65i

### AC75i/AC65i wireless module features:

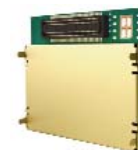
- Java ME™ profile IMP-NG (AC65i)
- Quadband support: GSM 850/900/1800/1900 MHz
- EDGE (E-GPRS) multi-slot class 12 (AC75i)
- Extended temperature range from -40°C to +85°C
- Integrated TCP/IP stack
- RIL driver for equipment based on Microsoft® Windows Mobile™
- SIM Access Profile



## NEW Cinterion BG2

### BG2 wireless module features:

- Dualband (BG2-E): GSM 900/1800MHz
- Quadband (BG2-W): GSM 850/900/1800/1900MHz
- GPRS: Multislot Class 8 (dualband) / 10 (quadband)
- TCP/IP stack access via AT commands
- 60-pin board-to-board connector
- Extended temperature range: -40°C to +85°C
- Dimension: 26.7 x 31.0 x 3.0 mm



## Cinterion EES3 / EGS3 / EGS5 / BGS3 / AGS3

### EES3 wireless module features:

- LGA 119 pads mounting technology
- EDGE Class 12 for both 236 kbps (uplink/downlink)
- GPRS Class 12 for both 86 kbps (uplink/downlink)
- Quadband (850/900/1800/1900 MHz)
- TCP/IP over AT
- RIL driver for MS Windows Mobile 6.1 based devices
- USB, I2C, SPI, two serial interfaces
- Extended temperature range: -40°C to +85°C
- Radio Link Stability (RLS) monitoring (e.g. for jamming detection)
- Remote SIM access



### EGS5 wireless module features:

- LGA 119 pads mounting technology
- GPRS Class 12 for both 86 kbps (uplink/downlink)
- Quadband (850/900/1800/1900 MHz)
- Java IMP-NG Virtual Machine open platform
- TCP/IP over AT
- USB, I2C, SPI, two serial interfaces
- Extended temperature range: -40°C to +85°C
- Radio Link Stability (RLS) monitoring (e.g. for jamming detection)
- Remote SIM access

### EGS3 wireless module features:

- LGA 119 pads mounting technology
- GPRS Class 12 for both 86 kbps (uplink/downlink)
- Quadband (850/900/1800/1900 MHz)
- TCP/IP over AT
- USB, I2C, SPI
- Two serial interfaces
- Extended temperature range: -40°C to +85°C
- Radio Link Stability (RLS) monitoring (e.g. for jamming detection)
- Remote SIM access

### BGS3 wireless module features:

- LGA 119 pads mounting technology
- GPRS Class 10 for 43 kbps in uplink and 86 kbps in downlink
- Quadband (850/900/1800/1900 MHz)
- RIL driver for MS Windows Mobile 6.1 based devices
- TCP/IP over AT
- Two serial interfaces
- Extended temperature range: -40°C to +85°C
- Radio Link Stability (RLS) monitoring (e.g. for jamming detection)

### AGS3 wireless module features:

- Quadband (850/900/1800/1900 MHz)
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- LGA Mounting, Industrial Interface, USB
- Advanced Temperature Management
- eCall prepared
- Antenna Diagnostics

## NEW Cinterion BGS2

### BGS2 wireless module features:

- Dualband (BGS2-E): GSM 900/1800MHz
- Quadband (BGS2-W): GSM 850/900/1800/1900MHz
- GPRS: Multislot Class 8 (dualband) / 10 (quadband)
- RIL for Pocket PC and Smartphone
- TCP/IP over AT
- Two serial interfaces
- Dimensions: 27.6mm x 18.8mm x 2.7mm

