New Products 2012/13 - by MC Technologies

NEW PHS8 Terminal with PHS8-P inside

- Five Bands UMTS/HSPA (850/800, 900, 1900 and 2100 MHz) Quad-Band GSM: 850, 900, 1800, 1900 MHz
- Operation temperature: -40 ºC to +75 ºC
- Supply voltage 6 - 60 V
- HSDPA/HSUPA: DL: 7.2 / 14.4 Mbps, UL: 2.0 / 5.76 Mbps
- UMTS: DL/UL: max. 384 kbps
- EDGE: DL/UL: max. 237 kbps, PBCCH support
- GPRS: DL/UL: max. 85.6 kbps, Full PBCCH support
- Standalone GPS, prepared for GLONASS
- Interfaces: Power supply, SIM card reader, EIA-RS-232 up to 920Kbps, USB type B, antenna connector FME (male) for GSM optional: SMA (female) for GPS; Mini-USB

NEW XT85/XT85i Terminal

- Cinterion® EGS5 and Telit SL869 integrated
- Quadband GSM 850/900/1800/1900 MHz
- GPRS Class 12: max. 86 kbps (DL&UL)
- TCP/IP over AT Commands
- Operation temperature: -40 °C ... +75 °C
- Java™ profile IMP-NG & CLDC 1.1 HI, GPS support
- ARM9 processor architecture
- GPS/GLONASS: Frequency: GPS (L1)/Glonas (L1, FDMA)/Galileao (E1), Standards: NMEA, RTCM, 32 channel GPS, Positional accuracy 1,5m, Time to first fix (@ -130 dBm) 1s (hot start), <35 s (cold start)
- Interfaces: Power supply, SIM card reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232; Mini-USB (only XT85i)
- Optional: The optional EGS5-X offers an extended memory (1.7 MB RAM, 8 MB Flash File System) and also enables integrated Firmware Over The Air Update (FOTA)

MC88/MC88i Terminal with EGS5 inside

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multislot class 12, DL/UL: max. 85.6 kbps
- Supply voltage 8-30 V
- TCP/IP over AT Commands
- Advanced features for M2M solutions
- Java IMP-NG Virtual Machine open platform
- "WatchDog" and "always on" functions
- Interfaces: RS232, Power supply, SIM card reader, antenna connector FME male; USB (only MC88i)

MC66 Terminal with BG2 inside

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multislot class 10 DL: max. 85.6 kbps, UL: max. 42.8 kbps
- Supply voltage 8-30 V
- TCP/IP over AT Commands
- Interfaces: RS232, Power supply, SIM card reader, antenna connector FM male

Products for special solutions

NEW Gigaset MD40

DECT Module for Radio Data Transmission

The Gigaset MD40 provides best performance on a small module for full duplex radio data transmission via DECT standard. The MD40 enables secure data transmission in the own DECT frequency range with proven coexistence mechanism. The MD40 is designed for easy integration and worldwide use. The MD40 is the successor of the MD32/MD34 module.

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® AC75, MC75i, TC65i, TC63i, EGS5, MC55i, TRM3

MC Technologies MC80 Terminal

with EGS5 inside

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multislot class 12, DL/UL: max. 85.6 kbps
- Supply voltage 12 V
- TCP/IP over AT Commands
- Advanced features for M2M solutions
- Java IMP-NG Virtual Machine open platform
- Included "WatchDog" and "always on" functions
- Interfaces: RS232, Power supply, SIM card reader, antenna connector FME male
- **With JAVA programmable signalling LEDs**

MC Technologies mobile router

- **MC-LR**
  LAN/WAN-Router
- **MC-MRE**
  EDGE-Router, based on Cinterion® MC75i
- **MC-MRH**
  HSPA+-Router, based on Cinterion® PH8 optional with GPS

We assume no liability for errors and misprints.

Online-Shop: www.mc-technologies.net

MC Technologies GmbH
Kabelkamp 2 - D-30179 Hannover
Phone: +49 511 67 69 99 -182/-183/-184/-186/-190
Fax: +49 511 67 69 99 185
cellulare@mc-technologies.net - www.mc-technologies.net

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MC Technologies Developments - Overview -

MC88/MC88i Terminal

GSM/GPRS M2M Java-Terminal
Universal Industrial Terminal with EGS5 inside

GSM/GPRS M2M Terminals

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

Alarm Signalling GPIO Terminal

Java-Terminal with GPIO-Adapter
Available with the Cinterion® module TC65i

HSPA+/UMTS/EDGE Terminal - optional with GPS

High-Speed data transmission
Available with the Cinterion® module PHS8

XT85/XT85i Terminal

JAVA Terminal with GPS/GLONASS
M2M Terminal with Cinterion® EGS5 and Telit SL869 inside

PC104 Card

GSM/GPRS Terminal for PC104 systems
Available with the Cinterion® modules MC75i, TC65i, TC63i, MC55i and GSM-R modul TRM3

Mobile Router

Mobile + LAN Router for industrial application
Mobile EDGE Router, Mobile HSPA Router, LAN/WAN Router

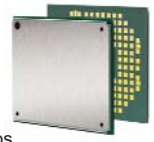
NEW MC Technologies XT85

- Cinterion® EGS5 and Telit SL869 integrated
- Quadband GSM 850/900/1800/1900 MHz
- GPRS class 12: max. 86 kbps (DL & UL)
- Java IMP-NG Virtual Machine open platform
- Extended temperature range: -40°C to +85°C
- TCP/IP stack access via AT commands
- ARM 9 processor architecture
- Radio Link Stability (RLS) monitoring (e.g. for jamming detection)
- USB, I2C, SPI, two serial interfaces
- GPS Frequency Band: GPS (L1), Glonass (L1, FDMA), Galileo (E1)

Cinterion® BGS2-W

- Quadband GSM 850/900/1800/1900MHz
- GPRS multislot Class 10
  DL: max. 85.6 kbps, UL: max. 42.8 kbps
- TCP / UDP stack; transparent TCP
- Full Voice Support
- Supply voltage 3.3 … 4.5 V
- Extended temperature range: -40°C to +85°C
- LGA66 soldering mount, MSL4
- 6 GPIO pins 1.8 V (special option for PWM or Buzzer and status indication functionality, 2 GPIO usable for I2C)

Cinterion® PHS8-P



- Quadband GSM 850/900/1800/1900 MHz
  Fiveband UMTS/HSPA+ 800/850/900/1900/2100 MHz
- GPRS multislot class 12, max. 85.6 kbps (DL and UL)
- EDGE multislot class 12, max. 237 kbps (DL and UL)
- HSDPA/HSUPA: DL: 7.2 / 14.4 Mbps, UL: 2.0 / 5.76 Mbps
- UMTS: max. 384 kbps (DL and UL)
- Supply voltage 3.3 … 4.2 V
- Operational Temperature: -40°C to +85°C
- Full Voice Support; GPS
- LGA mounting
- USB 2.0 high speed up to 480 Mbps, RS232 up to 920 Kbps

Cinterion® EES3, EGS5/EGS5-X, EGS3, BGS3

- Quadand GSM 850/900/1800/1900 MHz
- GPRS multislot Class 12 / 10 (only BGS3)
  max. 86 kbps (DL and UL), BGS3 only max. 43 kbps UL
- EDGE multislot Class 12 (only EES3)
  max. 236.8 kbps (DL and UL)
- Java™ profile IMP-NG & CLDC 1.1 HI, GPS support (only EGS5/EGS5-X)
  1,7 MB RAM and 8 MB Flash File System (only EGS5-X)
- Supply voltage range: 3.2 … 4.5 V
- Operational temperature range: -40°C to +85°C
- TCP/IP stack access via AT commands and transparent TCP service
- Internet services: TCP, UDP, HTTP, FTP, SMTP, POP3, Ping
- LGA 119 pads mounting technology
- Interfaces: Antenna 50 Ω solder pad, Audio: 2 x analog/1 x digital,
  2 Serial interfaces (ITU-T V.24 protocol), SIM card interface 3 V/1.8 V,
  USB 2.0 full speed, I2C & SPI bus
  only EGS5/EGS5-X: 2 ADC, 1 DAC, Multiple GPIOs

NEW Cinterion® EHS5-E

- Dual-Band UMTS (WCDMA/FDD) 900 and 2100 MHz
  Dual-Band GSM 900 and 1800 MHz
- HSDPA Cat.8 / HSUPA Cat.6 data rates
  DL: max. 7.2 Mbps, UL: max. 5.76 Mbps
- EDGE Class 12 data rates
  DL: max. 237 kbps, UL: max. 237 kbps
- GPRS Class 12 data rates
  DL: max. 85.6 kbps, UL: max. 85.6 kbps
- Operating temperature: -40°C to +85°C
- USB 2.0 HS interface up to 480 Mbps
- High speed serial modem interface ASC0, up to 920 kbps, auto-bauding
- MUX driver for Microsoft® Windows XP™, Vista™ and 7™

Cinterion® BG2-W

- Quadband GSM 850/900/1800/1900MHz
- GPRS multislot Class 10
  DL: max. 85.6 kbps, UL: max. 42.8 kbps
- TCP / UDP stack; transparent TCP
- Full Voice Support
- Supply voltage 3.3 … 4.5 V
- Extended temperature range: -40°C to +85°C
- RF-Connect via B2B connector for cost effective applications
- 60-pin board-to-board connector
- 8 GPIO's, I2C interface, ADC / DAC interface
- Mounting by solderable pins - no screws, no spacer

Cinterion® PH8 / PH8-P

- Quadband GSM 850/900/1800/1900 MHz
  Fiveband UMTS 800/850/AWS1700/1900/2100 MHz (PH8)
  Fiveband UMTS 800/850/900/1900/2100 MHz (PH8-P)
- GPRS multislot class 12, max. 85.6 kbps (DL and UL)
- EDGE multislot class 12, max. 237 kbps (DL and UL)
- HSDPA/HSUPA: DL: 7.2 / 14.4 Mbps, UL: 2.0 / 5.76 Mbps
- UMTS: max. 384 kbps (DL and UL)
- Supply voltage 3.3 … 4.2 V
- Operational Temperature: -40°C to +85°C
- Full Voice Support; GPS
- 80-pin board-to-board connector
- USB 2.0 high speed up to 480 Mbps, RS232 up to 920 Kbps

Cinterion® MC75i / TC63i / TC65i / TC65i-X

- Quadand GSM 850/900/1800/1900 MHz
- GPRS multislot Class 12
  max. 86 kbps (DL and UL)
- EDGE multislot Class 12 (only MC75i)
  max. 236.8 kbps (DL and UL)
- Java™ profile IMP-NG & CLDC 1.1 HI, GPS support (only TC65i/TC65i-X)
  1,7 MB RAM and 8 MB Flash File System (only TC65i-X)
- Supply voltage 3.2 … 4.5 V
- Operational temperature range: -40°C to +75°C
- TCP/IP stack access via AT commands and transparent TCP service
- Internet services: TCP, UDP, HTTP, FTP, SMTP, POP3, Ping
- Interfaces: Molex 80-pin board-to-board connector, Hirose U.FL-R-SMT
  50 Ohm antenna connector, Antenna solder pad, Power supply,
  Audio: 2 x analog/1 x digital, 2 x serial (ITU-T V.24 protocol), USB 2.0
  full speed, SIM Card 3 V/1.8 V, I²C bus, SPI bus
  only TC65i/TC65i-X: 2 x ADC / 1 x DAC, Multiple GPIOs

NEW Cinterion® EHS5 miniPCIe

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multislot class 10
  DL: max. 85.6 kbps, UL: max. 42.8 kbps
- Supply voltage 3.0 … 3.6 V
- Operating temperature: -40°C to +85°C
- USB driver for Windows®7, Windows Vista®, Windows XPTM, Compatible with modem driver of Windows®7, Windows Vista®, Windows XPTM, with USB and modem driver of Linux kernel, e.g. Wind River Linux
- 52 pin PCI Express®Mini Card system connector (Supply voltage 3.3 V, USB 2.0 full speed, UICC/SIM card 1.8 V / 3.0 V, Status LED (configurable GPIO), Reset), Antenna connector: U.FL 50 Ω

NEW Cinterion® BGS2 miniPCIe

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multislot class 10
  DL: max. 85.6 kbps, UL: max. 42.8 kbps
- Supply voltage 3.0 … 3.6 V
- Operating temperature: -40°C to +85°C
- USB driver for Windows®7, Windows Vista®, Windows XPTM, Compatible with modem driver of Windows®7, Windows Vista®, Windows XPTM, with USB and modem driver of Linux kernel, e.g. Wind River Linux
- 52 pin PCI Express®Mini Card system connector (Supply voltage 3.3 V, USB 2.0 full speed, UICC/SIM card 1.8 V / 3.0 V, Status LED (configurable GPIO), Reset), Antenna connector: U.FL 50 Ω

Cinterion® AC75i / AC65i

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multislot class 12
- EDGE multislot class 12 (only AC75i)
  max. 236.8 kbps (DL and UL)
- Java ME™ profile IMP-NG (only AC65i)
- Supply voltage 3.2 ... 4.5 V
- Extended temperature range from -40°C to +85°C
- TCP/IP stack access via AT commands
- Internet Services: TCP, UDP, HTTP, FTP, SMTP, POP3
- Antenna Diagnostics, eCall prepared, RLS Monitoring
- 80-pin board-to-board connector

Cinterion® MC55i / MC55i-W

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multislot class 10
  max. 86 kbps (DL), max. 43 kbps (UL)
- Supply voltage 3.3 ... 4.8 V
- Extended temperature range:
  -40°C to +70°C (MC55i)
  -40°C to +85°C (MC55i-W)
- TCP/IP stack access via AT commands
- Internet Services: TCP Server/Client, UDP, HTTP, FTP, SMTP, POP3
- 50 pin B2B connector, 2 serial interfaces
- RIL driver for MS Windows Mobile 6.1 based devices
- Reduced power consumption
- Tunneling mode (only MC5i-W)