

**GSM GPRS
UMTS HSPA
Data Terminals
and
accessoires**



Company Profile / Quality / Service

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Company profile

MC Technologies GmbH is a leading European supplier of innovative solutions for:

- Machine-to-Machine (M2M) applications via mobile networks for business customers
- Customized cable manufacturing
- Distribution of electromechanical elements and components from selected and certified partners

Due to our more than 60 years of experience in telecommunications we offer:

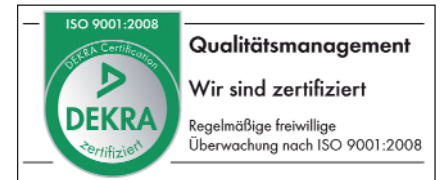
- A high qualified competence
- A rapid and professional implementation of all commercial and logistic processes
- A comprehensive service concept for all of our products und solutions

MC Technologies quality

A principal purpose of MC Technologies is to win the trust and the satisfaction of our customers and to receive with lasting effect. This corporate strategy and high-class politics form the basis for the definition of our high-class aims.

As higher business objectives the following aims were fixed:

- Logical alignment of all activities to the increase of the customer satisfaction
- Continuous high-class improvement
- Support and motivation of our members of staff
- Fair cooperation with suppliers
- Economic action
- Maintenance of a living quality management system after German Institute for Standardization (DIN) EN ISO 9001:2008



Construction element manufacture

The worldwide implementation of large numbers of our modules sets the benchmark for their quality. As well as maximum precision during manufacture, it is also important to continuously check every step of the process with regard to efficiency and quality increase. Here it is important to ensure a systematic approach; i.e. efficient cooperation between all system components (modules, antenna, SIM cards, accessories) so that the customer receives a technically efficient, functioning unit.

MC Technologies MC66 Terminal GSM/GPRS M2M Terminal

Universal industrial terminal based on BG2



MC Technologies GSM/GPRS/GPS Terminals Track and communication terminal

Available with Cinterion modules XT65, XT75, EGS5



MC Technologies MC88i Terminal GSM/GPRS M2M JavaTerminal

Universal Industrial terminal with integrated EGS5

MC Technologies GSM/ GPRS Terminals

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



MC Technologies UMTS HSPA Terminal UMTS terminal that supports the HSDPA standard

Available with Cinterion modules HC25, HC28, PH8

MC Technologies GPIO Terminal JavaTerminal with GPIO adapter

Available with Cinterion modules XT65, XT75, EGS5, TC65i



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NEW MC Technologies PH8 Terminal

PH8 Terminal - Made by MC Technologies

HSPA+/UMTS/EDGE/GPS Terminal

Technical Data:

- ❑ Fiveband UMTS (WCDMA/FDD): 800, 850, 1900, AWS and 2100 MHz
- ❑ Quad-Band GSM: 850, 900, 1800, 1900 MHz
- ❑ EDGE (E-GPRS) multi-slot class 12
- ❑ GPRS multi-slot class 12
- ❑ UMTS / HSPA+, 3GPP release 6 / 7
- ❑ GSM / GPRS / EDGE, 3GPP release 99 / 4
- ❑ TCP/IP stack access via AT commands
- ❑ Input voltage range: 8 ... 30 V
- ❑ Operation temperature:-30 °C ... +85 °C
- ❑ Extended temperature range: -40°C ... +95°
- ❑ Dimensions: 65 x 74 x 33 mm
- ❑ Weight: approx. 110 g
- ❑ **HSDPA/HSUPA:** DL: 7.2 / 14.4 Mbps, UL: 2.0 / 5.76 Mbps
- ❑ **EDGE:** DL/UL: max. 237 kbps, PBCCH support, Downlink/Uplink coding schemes – CS 1-4, MCS 1-9, Mobile Station Class B
- ❑ **GPRS:** DL/UL: max. 85.6 kbps, Full PBCCH support, Mobile station class B, Coding scheme 1– 4
- ❑ **UMTS:** DL/UL: max. 384 kbps
- ❑ **GPS:** on-board GPS function
- ❑ **Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode, RLP
- ❑ **SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- ❑ **Interfaces:** Power supply, SIM card reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub), Mini-USB



available Q2/2012

MC Technologies PH8 Terminal and accessoires

Article Description

Article-No.

PH8 Terminal - Made by MC Technologies -	MC1213678-TERM-GPS
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Mini USB 2.0 cable, 1,8m	MC1213230
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213115



MC1213116



MC1213226



MC1213229-1/-2



Mounting Kit TC/MC

NEW MC Technologies MC80 Terminal

MC80 Terminal - Made by MC Technologies

Quadband multi-functional terminal for many M2M applications with JAVA programmable signaling LEDs

Technical Data:

- ❑ Quadband GSM 850/900/1800/1900 MHz
- ❑ GPRS multi-slot class 12
- ❑ SIM Application Tool Kit
- ❑ TCP/IP stack access via AT commands
- ❑ Input voltage range: 12 V in conjunction with our MC1213114-45-EU Power Supply
- ❑ Operation temperature: -30°C ... +75°C, Switch off: >+85°C
- ❑ Extended temperature range: +75°C ... +85°C, -30°C ... -40°C
- ❑ Dimensions: 65 x 74 x 33 mm
- ❑ Weight: approx. 110 g
- ❑ **GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- ❑ **Data:** CSD up to 14.4 kbps, Mobile station class B, PBCCH support, Coding schemes CS 1-4
- ❑ **JAVA:** Java™ profile IMP-NG & CLDC 1.1 HI, secure data transmission with HTTPS, SSL, and PKI, Multithreading programming and program execution
- ❑ **SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- ❑ **Fax:** Group 3, Class 1
- ❑ **Interfaces:** Power supply, SIM card reader, FME antenna connector (male), RS232 (V.24/V.28 on sub-D)
- ❑ **Special Features:** **WatchDog and always on function**
6 freely programmable LEDs signaling in JAVA



available Q4/2011

MC Technologies MC80 Terminal and Accessoires

Article Description

Article No.

MC80 Terminal - Made by MC Technologies -	MC1213880-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213226



Mounting Kit TC/MC

MC Technologies MC88 Terminal

MC88 Terminal - Made by MC Technologies

Quadband multi-functional terminal for varied applications, with advanced functions for all basic M2M solutions with JAVA, GPRS and TCP / IP



Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- SIM Application Tool Kit
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +75°C, Switch off: >+85°C
- Extended temperature range: +75°C ... +85°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, Mobile station class B, PBCCH support, Coding schemes CS 1-4
- JAVA:** Java™ profile IMP-NG & CLDC 1.1 HI, secure data transmission with HTTPS, SSL, and PKI, Multithreading programming and program execution
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM card reader, FME antenna connector (male), RS232 (V.24/V.28 on sub-D)
- Special Features:** WatchDog and always on functions

MC Technologies MC88 Terminal and Accessoires

Article Description	Article No.
MC88 Terminal - Made by MC Technologies -	MC1213888-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213226



Mounting Kit TC/MC

MC Technologies MC88i Terminal

MC88i Terminal - Made by MC Technologies

Quadband multi-functional terminal for varied applications, with advanced functions for all basic M2M solutions with JAVA, GPRS and TCP / IP



Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- SIM Application Tool Kit
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +75°C, Switch off: >+85°C
- Extended temperature range: +75°C ... +85°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, Mobile station class B, PBCCH support, Coding schemes CS 1-4
- JAVA:** Java™ profile IMP-NG & CLDC 1.1 HI, secure data transmission with HTTPS, SSL, and PKI, Multithreading programming and program execution
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM card reader, FME antenna connector (male), RS232 (V.24/V.28 on sub-D), **Mini-USB** interface
- Special Features:** **WatchDog** and **always on** functions

MC Technologies MC88i Terminal and Accessoires

Article Description

Article No.

MC88i Terminal - <i>Made by MC Technologies</i> -	MC1213888-USB-232
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Mini USB 2.0 cable, 1,8m	MC1213230
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213116



MC1213226



MC1213230



Mounting Kit TC/MC

MC Technologies MC66-E Terminal

MC66-E Terminal - *Made by MC Technologies*

Dualband GSM/GPRS-Terminal for all basic M2M solutions

Technical Data:

- ❑ Dualband GSM 900/1800MHz
- ❑ GPRS multi-slot class 8
- ❑ TCP/IP stack access via AT commands
- ❑ Input voltage range: 8 ... 30 V
- ❑ Operation temperature: -30°C ... +85°C
- ❑ Extended temperature range: -40°C ... -30°C and +85°C ... +90°C
- ❑ Dimensions: 65 x 74 x 33 mm
- ❑ Weight: approx. 110 g
- ❑ **GPRS:** DL: max. 85.6 kbps / UL: max. 21.4 kbps (MC66-E), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- ❑ **Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- ❑ **SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- ❑ **Fax:** Group 3, Class 1
- ❑ **Interfaces:** Power supply, SIM card reader, FME antenna connector (male), RS232 (V.24/V.28 on sub-D)



MC Technologies MC66-E Terminal and accessoires

Article Description	Article No.
MC66-E Terminal - <i>Made by MC Technologies</i> -	MC1213652-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213226



Mounting Kit TC/MC

MC Technologies MC66-W Terminal

MC66-W Terminal - Made by MC Technologies

Quadband GSM/GPRS-Terminal for all basic M2M solutions

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 10
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +85°C
- Extended temperature range: -40°C ... -30°C und +85°C ... +90°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** DL: max. 85.6 kbps / UL: max. 42.8 kbps, Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM card reader, FME antenna connector (male), RS232 (V.24/V.28 on sub-D)



MC Technologies MC66 Terminal and accessoires

Article Description

Article No.

MC66-W Terminal - Made by MC Technologies -	MC1213653-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213226



Mounting Kit TC/MC

MC Technologies MC55i Terminal

MC55i Terminal - Made by MC Technologies

Technical Data:

- ❑ Quadband GSM 850/900/1800/1900 MHz
- ❑ GPRS multi-slot class 10
- ❑ TCP/IP stack access via AT commands
- ❑ Supply voltage range: 8 ... 30 V
- ❑ Operation temperature: -20°C ... +55°C
- ❑ Extended temperature range: -40°C ... -20°C and +55°C ... +70°C
- ❑ Dimensions: 65 x 74 x 33 mm
- ❑ Weight: approx. 110 g
- ❑ **GPRS:** DL: max. 85.6 kbps, Mobile station class B, PBCCH support, Coding schemes CS 1-4
- ❑ **Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- ❑ **Voice:** Half rate (HR) / Full rate (FR) / Enhanced full rate (EFR), Adaptive multi rate (AMR), Basic hands-free operation, Echo cancellation, Noise reduction
- ❑ **SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- ❑ **Fax:** Group 3, Class 1/2
- ❑ **Interfaces:** Power supply, Handset, SIM Card Reader, FME antenna connector (male), RS232 (V.24/V.28 on sub-D)
- ❑ **Driver:** RIL/MUX software for Microsoft® Windows Mobile™ 5.0 based devices; RIL driver for Microsoft® Windows Mobile™ 6 based devices, Multiplex driver for Microsoft® Windows XP™ and Microsoft® Windows Vista™



MC Technologies MC55i Terminal and accessoires

Article Description

Article-No.

MC55i Terminal - Made by MC Technologies -	MC1213649-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Microphone, Western Plug	MC1213117
Handset	MC1213225
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213117



MC1213225



MC1213226

MC Technologies TRM3 Terminal

TRM3 Terminal - Made by MC Technologies

Technical Data:

- Quadband GSM 900/1800/1900 MHz / **GSM-R**
- GPRS multi-slot class 10
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -20°C ... +70°C)
- Extended temperature range: -40°C ... -20°C and +55°C ... +70°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** DL: max. 85.6 kbps, Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- Voice:** Half rate (HR) / Full rate (FR) / Enhanced full rate (EFR), Adaptive multi rate (AMR), Basic hands-free operation, Echo cancellation, Noise reduction
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1/2
- Interfaces:** Power supply, Handset, SIM Card Reader, FME antenna connector (male), RS232 (V.24/V.28 on sub-D)
- Driver:** RIL/MUX software for Microsoft® Windows Mobile™ 5.0 based devices
Windows Mobile™ 6 based devices, Multiplex driver for Microsoft® Windows XP™ and Microsoft® Windows Vista™



MC Technologies TRM3 Terminal and accessoires

Article Description

Article Description	Article-No.
TRM3 Terminal - Made by MC Technologies -	MC1213649-R
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Microphone, Western Plug	MC1213117
Handset	MC1213225
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213117



MC1213225



MC1213226

MC Technologies AC75i Terminal

AC75i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - EDGE class 12

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- EDGE (E-GPRS) multi-slot class 12
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +75°C
- Extended temperature range: +75°C ... +85°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- EDGE:** max. 236.8 kbps (DL & UL), Mobile station class B, Modulation und coding scheme MCS 1-9
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- Voice (optional):** Triple-rate codec für HR, FR and EFR, Adaptive multi rate (AMR), Basic hands-free operation, echo cancellation, noise reduction
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D)



MC Technologies AC75i Terminal and accessoires

Article Descriptin

Article No.

AC75i Terminal - Made by MC Technologies -	MC1213878-Terminal
AC75i Terminal with audio enhancement - Made by MC Technologies -	MC1213878-Term-Audio
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/UK/US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies AC65i Terminal

AC65i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +75°C
- Extended temperature range: +75°C ... +85°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- JAVA:** secure data transmission with HTTPS and PKI
CLDC HotSpot™ Implementation 1.1.2CLDC, Java ME™ profile IMP-NG,
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D)
- Special Features:** Autostart function, WatchDog function



MC Technologies AC65i Terminal and accessoires

Article Descriptin

Article No.

AC65i Terminal - Made by MC Technologies -	MC1213879-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/UK/US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies MC75i Terminal

MC75i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - EDGE class 12

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- EDGE (E-GPRS) multi-slot class 12
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +65°C
- Extended temperature range: +65°C ... +75°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- EDGE:** max. 236.8 kbps (DL & UL), Mobile station class B, Modulation und coding scheme MCS 1-9
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D)



MC Technologies MC75i Terminal and accessoires

Article Descriptin	Article No.
MC75i Terminal - Made by MC Technologies -	MC1213675-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies MC75i USB-Terminal

MC75i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - EDGE class 12 - USB interface

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- EDGE (E-GPRS) multi-slot class 12
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +65°C
- Extended temperature range: +65°C ... +75°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- EDGE:** max. 236.8 kbps (DL & UL), Mobile station class B, Modulation und coding scheme MCS 1-9
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D), **Mini-USB interface**



MC Technologies MC75i USB-Terminal and accessoires

Article Descriptin	Article No.
MC75i USB-Terminal - Made by MC Technologies -	MC1213675-USB-232
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Mini USB 2.0 cable, 1,8m	MC1213230
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213230



MC1213150



Mounting Kit TC/MC

MC Technologies TC63i Terminal

TC63i Terminal - Made by MC Technologies

Quadband - GPRS Class 12

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +65°C
- Extended temperature range: +65°C ... +75°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D)



MC Technologies TC63i Terminal and accessoires

Article Descriptin	Article No.
TC63i Terminal - Made by MC Technologies -	MC1213672-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies TC63i USB-Terminal

TC63i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - USB interface

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +65°C
- Extended temperature range: +65°C ... +75°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D), **Mini-USB interface**



MC Technologies TC63i USB-Terminal and accessoires

Article Descriptin

Article No.

TC63i USB-Terminal - Made by MC Technologies -	MC1213672-USB-232
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Mini USB 2.0 cable, 1,8m	MC1213230
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213230



MC1213150



Mounting Kit TC/MC

MC Technologies TC65i Terminal

TC65i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +65°C
- Extended temperature range: +65°C ... +75°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- JAVA:** secure data transmission with HTTPS and PKI
CLDC 1.1 HI, J2ME profile IMP-NG
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D)
- Special Features:** Autostart function, WatchDog function



MC Technologies TC65i Terminal and accessoires

Article Descriptin	Article No.
TC65i JavaTerminal - Made by MC Technologies -	MC1213673-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies TC65i USB-Terminal

TC65i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA - USB interface

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +65°C
- Extended temperature range: +65°C ... +75°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- JAVA:** secure data transmission with HTTPS and PKI
CLDC 1.1 HI, J2ME profile IMP-NG
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D), **Mini-USB interface**
- Special Features:** Autostart function, WatchDog function



MC Technologies TC65i USB-Terminal and accessoires

Article Descriptin	Article No.
TC65i USB-Terminal - Made by MC Technologies -	MC1213673-USB-232
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Mini USB 2.0 cable, 1,8m	MC1213230
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213230



MC1213150



Mounting Kit TC/MC

MC Technologies TC65i RS485-Terminal

TC65i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA - RS485 interface

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +65°C
- Extended temperature range: +65°C ... +75°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- JAVA:** secure data transmission with HTTPS and PKI
CLDC 1.1 HI, J2ME profile IMP-NG
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D), **RS485**
- Special Features:** Autostart function, WatchDog function



MC Technologies TC65i RS485-Terminal and accessoires

Article Descriptin

Article No.

TC65i RS485-Terminal - Made by MC Technologies -	MC1213673-485-Term
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU-UK-US



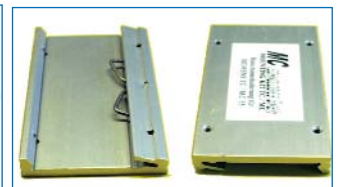
MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies TC65i GPIO-Terminal

TC65i Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA - GPIO-Adapter

Technical Data:

- Quadband GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Input voltage range: 8 ... 30 V
- Operations temperature: -30°C ... +65°C
- Extended temperature range: +65°C ... +75°C, -30°C ... -40°C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL & UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14.4 kbps, V.110, Non-transparent mode, USSD support
- JAVA:** secure data transmission with HTTPS and PKI
CLDC 1.1 HI, J2ME profile IMP-NG
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 2
- Interfaces:** Power Supply, Handset, SIM card reader, FME antenna connection (male), RS232 (V.24/V.28 on sub-D), **GPIO adapter**
- Special Features:** Autostart function, WatchDog function



MC Technologies TC65i GPIO-Terminal and accessoires

Article Descriptin

TC65i GPIO-Terminal - Made by MC Technologies -

Power supply incl. connecting cable / Western plug, EU plug

Power supply incl. connecting cable / Western plug, UK plug

Power supply incl. connecting cable / Western plug, US plug

Power adapter Western Plug / open end, approx. 1,5m

12-24V Car adapter 1,5 m cable, Western plug, for battery pack

Data cable 1,8m, 9 pin male - 9 pin female

Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)

Mounting Kit incl. 2 fixing bolts

Article No.

MC1213673-T-GPIO

MC1213114-45-EU

MC1213114-45-UK

MC1213114-45-US

MC1213115

MC1213116

MC1213226

MC1213150

Mounting Kit TC/MC



MC1213114-45-EU-UK-US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies HC25 Terminal

HC25 Terminal - Made by MC Technologies

Triband UMTS/HSDPA - Quadband GSM - EDGE/GPRS Class 10

Technical Data:

- ❑ Triband UMTS/HSDPA (WCDMA/FDD) 850/1900/2100 MHz
Quadband GSM 850/900/1800/1900 MHz
- ❑ EDGE (E-GPRS) multi-slot class 10
- ❑ GPRS multi-slot class 10
- ❑ UMTS/HSDPA/GSM 3GPP
- ❑ TCP/IP stack access via AT commands
- ❑ Supply voltage range: 8 ... 30 V
- ❑ Operation temperature: -30 °C ... +65 °C, Switch off: +85°C
- ❑ Dimensions: 65 x 74 x 33 mm, Weight: 130 g
- ❑ **EDGE:** max. 237 kbps (DL), max. 118 kbps (UL),
Modulation and coding scheme MCS 1-9, mobile station class B
- ❑ **GPRS:** max. 85.6 kbps (DL), max. 42.8 kbps (UL) Full PBCCH support,
mobile station class B, Coding scheme 1-4
- ❑ **UMTS:** max. 384 kbps (DL), max. 384 kbps (UL)
- ❑ **HSDPA:** max. 3.6 Mbps (DL), max. 384 kbps (UL), UE CAT [1-6], 11, 12 supported,
Compressed mode according to 3GPP TS25.212
- ❑ **Data:** GSM data rate 14.4 kbps, V.110; UMTS data rate 57.6 kbps V.120;
RLP (Non-transparent mode)
- ❑ **SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- ❑ **Fax:** Group 3, Class 1
- ❑ **Interfaces:** RS232, USB, Power supply, SIM Card Reader, FME antenna connector (male)
- ❑ **Special Features:** Improved power-saving modes, NDIS/USB driver for Microsoft®
Windows® XP, RIL/NDIS/USB driver for devices based on Microsoft® Windows
Mobile™5.0 and higher



MC Technologies HC25 Terminal and accessoires

Article Description

Article Description	Article-No.
HC25 Terminal USB - Made by MC Technologies -	MC1213825-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
USB cable A/B, 1m	MC1213229-1
USB cable A/B, 2m	MC1213229-2
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213115



MC1213116



MC1213226



MC1213229-1/-2



Mounting Kit TC/MC

MC Technologies HC25 GPS-Terminal

HC25 GPS-Terminal - Made by MC Technologies

Triband UMTS/HSDPA - Quadband GSM - EDGE/GPRS Class 10 - GPS

Technical Data:

- ❑ Triband UMTS/HSDPA (WCDMA/FDD) 850/1900/2100 MHz
Quadband GSM 850/900/1800/1900 MHz
- ❑ EDGE (E-GPRS) multi-slot class 10
- ❑ GPRS multi-slot class 10
- ❑ UMTS/HSDPA/GSM 3GPP
- ❑ TCP/IP stack access via AT commands
- ❑ Supply voltage range: 8 ... 30 V
- ❑ Operation temperature: -30 °C ... +65 °C, Switch off: +85°C
- ❑ Dimensions: 65 x 74 x 33 mm, Weight: 130 g
- ❑ **EDGE:** max. 237 kbps (DL), max. 118 kbps (UL),
Modulation and coding scheme MCS 1-9, mobile station class B
- ❑ **GPRS:** max. 85.6 kbps (DL), max. 42.8 kbps (UL) Full PBCCH support,
mobile station class B, Coding scheme 1-4
- ❑ **UMTS:** max. 384 kbps (DL), max. 384 kbps (UL)
- ❑ **HSDPA:** max. 3.6 Mbps (DL), max. 384 kbps (UL), UE CAT [1-6], 11, 12 supported,
Compressed mode according to 3GPP TS25.212
- ❑ **GPS:** on-board GPS functionality
- ❑ **Data:** GSM data rate 14.4 kbps, V.110; UMTS data rate 57.6 kbps V.120;
RLP (Non-transparent mode)
- ❑ **SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- ❑ **Fax:** Group 3, Class 1
- ❑ **Interfaces:** RS232, USB, Power supply, SIM Card Reader, 2 x antenna connector (FME male / SMA female)
- ❑ **Special Features:** Improved power-saving modes, NDIS/USB driver for Microsoft®
Windows® XP, RIL/NDIS/USB driver for devices based on Microsoft® Windows Mobile™5.0 and higher



MC Technologies HC25 GPS-Terminal and accessoires

Article Description

Article Description	Article-No.
HC25 GPS-Terminal USB - Made by MC Technologies -	MC1213825-Term-GPS
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
USB cable A/B, 1m	MC1213229-1
USB cable A/B, 2m	MC1213229-2
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213115



MC1213116



MC1213226



MC1213229-1/-2



Mounting Kit TC/MC

MC Technologies XT65 Terminal

XT65 Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA - GPS

Technical Data:

- Quadband GSM850/900/1800/1900
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +65°C, Switch off: +90°C
- Extended temperature range: -30 °C ... +85 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL&UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode
- JAVA:** CLDC 1.1 HI, J2ME™ profile IMP-NG, Location API (JSR179) for GPS access, secure data transmission with HTTPS, SSL and PKI
- Open application resources:** ARM® Core, Blackfin® DSP, Memory: 400 kB (RAM) und 1.2 MB (Flash), Support for integrated development environments with On-Device-Debugging
- GPS receiver:** GPS dedicated AT commands, Support for SBAS (WAAS/EGNOS/MSAS), GPS active antenna supply: 3.0 V, A-GPS enabled, Protocols: NMEA-0183 V2.3, RTCM, V2.2, UBX binary protocol
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM Card Reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub)
- Special Features:** Autostart function, WatchDog function



MC Technologies XT65 Terminal and accessoires

Article Description	Article-No.
XT65 Terminal - Made by MC Technologies -	MC1213882-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies XT65 USB-Terminal

XT65 USB-Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA - GPS - USB

Technical Data:

- Quadband GSM850/900/1800/1900
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +65°C, Switch off: +90°C
- Extended temperature range: -30 °C ... +85 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL&UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode
- JAVA:** CLDC 1.1 HI, J2ME™ profile IMP-NG, Location API (JSR179) for GPS access, secure data transmission with HTTPS, SSL and PKI
- Open application resources:** ARM® Core, Blackfin® DSP, Memory: 400 kB (RAM) und 1.2 MB (Flash), Support for integrated development environments with On-Device-Debugging
- GPS receiver:** GPS dedicated AT commands, Support for SBAS (WAAS/EGNOS/MSAS), GPS active antenna supply: 3.0 V, A-GPS enabled, Protocols: NMEA-0183 V2.3, RTCM, V2.2, UBX binary protocol
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM Card Reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub), **Mini-USB** interface
- Special Features:** Autostart function, WatchDog function



MC Technologies XT65 USB-Terminal and accessoires

Article Description

XT65 USB-Terminal - Made by MC Technologies -

Article Description	Article-No.
XT65 USB-Terminal - Made by MC Technologies -	MC1213882-USB-232
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Mini USB 2.0 cable, 1,8m	MC1213230
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213230



MC1213150



Mounting Kit TC/MC

MC Technologies XT65 GPIO-Terminal

XT65 GPIO Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA - GPS - GPIO-Adapter

Technical Data:

- Quadband GSM850/900/1800/1900
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +65°C, Switch off: +90°C
- Extended temperature range: -30 °C ... +85 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL&UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode
- JAVA:** CLDC 1.1 HI, J2ME™ profile IMP-NG, Location API (JSR179) for GPS access, secure data transmission with HTTPS, SSL and PKI
- Open application resources:** ARM® Core, Blackfin® DSP, Memory: 400 kB (RAM) und 1.2 MB (Flash), Support for integrated development environments with On-Device-Debugging
- GPS receiver:** GPS dedicated AT commands, Support for SBAS (WAAS/EGNOS/MSAS), GPS active antenna supply: 3.0 V, A-GPS enabled, Protocols: NMEA-0183 V2.3, RTCM, V2.2, UBX binary protocol
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM Card Reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub), GPIO-Adapter
- Special Features:** Autostart function, WatchDog function



MC Technologies XT65 Terminal and accessoires

Article Description

XT65 GPIO-Terminal - Made by MC Technologies -

Article-No.

XT65 GPIO-Terminal - Made by MC Technologies -	MC1213882-TERM-GPIO
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies XT65 GPIO-USB-Terminal

XT65 GPIO-USB-Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - JAVA - GPS - GPIO adapter - USB

Technical Data:

- Quadband GSM850/900/1800/1900
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +65°C, Switch off: +90°C
- Extended temperature range: -30 °C ... +85 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- GPRS:** max. 86 kbps (DL&UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode
- JAVA:** CLDC 1.1 HI, J2ME™ profile IMP-NG, Location API (JSR179) for GPS access, secure data transmission with HTTPS, SSL and PKI
- Open application resources:** ARM® Core, Blackfin® DSP, Memory: 400 kB (RAM) und 1.2 MB (Flash), Support for integrated development environments with On-Device-Debugging
- GPS receiver:** GPS dedicated AT commands, Support for SBAS (WAAS/EGNOS/MSAS), GPS active antenna supply: 3.0 V, A-GPS enabled, Protocols: NMEA-0183 V2.3, RTCM, V2.2, UBX binary protocol
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM Card Reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub), GPIO adapter, Mini-USB interface
- Special Features:** Autostart function, WatchDog function



MC Technologies XT65 USB-Terminal and accessoires

Article Description

XT65 GPIO-USB-Terminal - Made by MC Technologies -

Article-No.

Power supply incl. connecting cable / Western plug, EU plug	MC1213882-T-GPIO-USB
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-UK
Power adapter Western Plug / open end, approx. 1,5m	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Mini USB 2.0 cable, 1,8m	MC1213230
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213230



MC1213150



Mounting Kit TC/MC

MC Technologies XT75 Terminal

XT75 Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - EDGE Class 10 - JAVA - GPS



Technical Data:

- Quadband GSM850/900/1800/1900
- EDGE (E-GPRS) multi-slot class 10
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +65°C, Switch off: +90°C
- Extended temperature range: -30 °C ... +85 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- EDGE:** max. 236.8 kbps, Mobile station class B, Modulation and coding scheme MCS 1-9
- GPRS:** max. 86 kbps (DL&UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode
- JAVA:** CLDC 1.1 HI, J2ME™ profile IMP-NG, Location API (JSR179) for GPS access, secure data transmission with HTTPS, SSL and PKI
- Open application resources:** ARM® Core, Blackfin® DSP, Memory: 400 kB (RAM) und 1.2 MB (Flash), Support for integrated development environments with On-Device-Debugging
- GPS receiver:** GPS dedicated AT commands, Support for SBAS (WAAS/EGNOS/MSAS), GPS active antenna supply: 3.0 V, A-GPS enabled, Protocols: NMEA-0183 V2.3, RTCM, V2.2, UBX binary protocol
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM Card Reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub)
- Special Features:** Autostart function, WatchDog function

MC Technologies XT75 Terminal and accessoires

Article Description

XT75 Terminal - Made by MC Technologies -

Article-No.

XT75 Terminal - Made by MC Technologies -	MC1213881-Terminal
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies XT75 USB-Terminal

XT75 USB-Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - EDGE Class 10 - JAVA - GPS - USB

Technical Data:

- Quadband GSM850/900/1800/1900
- EDGE (E-GPRS) multi-slot class 10
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +65°C, Switch off: +90°C
- Extended temperature range: -30 °C ... +85 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- EDGE:** max. 236.8 kbps, Mobile station class B, Modulation and coding scheme MCS 1-9
- GPRS:** max. 86 kbps (DL&UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode
- JAVA:** CLDC 1.1 HI, J2ME™ profile IMP-NG, Location API (JSR179) for GPS access, secure data transmission with HTTPS, SSL and PKI
- Open application resources:** ARM® Core, Blackfin® DSP, Memory: 400 kB (RAM) und 1.2 MB (Flash), Support for integrated development environments with On-Device-Debugging
- GPS receiver:** GPS dedicated AT commands, Support for SBAS (WAAS/EGNOS/MSAS), GPS active antenna supply: 3.0 V, A-GPS enabled, Protocols: NMEA-0183 V2.3, RTCM, V2.2, UBX binary protocol
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM Card Reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub), **Mini-USB** interface
- Special Features:** Autostart function, WatchDog function



MC Technologies XT75 USB-Terminal and accessoires

Article Description

XT75 USB-Terminal - Made by MC Technologies -

Article Description	Article-No.
XT75 USB-Terminal - Made by MC Technologies -	MC1213881-USB-232
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Mini USB 2.0 cable, 1,8m	MC1213230
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213226



MC1213115



Mounting Kit TC/MC

MC Technologies XT75 GPIO-Terminal

XT75 GPIO Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - EDGE Class 10 - JAVA - GPS - GPIO

Technical Data:

- Quadband GSM850/900/1800/1900
- EDGE (E-GPRS) multi-slot class 10
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +65°C, Switch off: +90°C
- Extended temperature range: -30 °C ... +85 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- EDGE:** max. 236.8 kbps, Mobile station class B, Modulation and coding scheme MCS 1-9
- GPRS:** max. 86 kbps (DL&UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode
- JAVA:** CLDC 1.1 HI, J2ME™ profile IMP-NG, Location API (JSR179) for GPS access, secure data transmission with HTTPS, SSL and PKI
- Open application resources:** ARM® Core, Blackfin® DSP, Memory: 400 kB (RAM) und 1.2 MB (Flash), Support for integrated development environments with On-Device-Debugging
- GPS receiver:** GPS dedicated AT commands, Support for SBAS (WAAS/EGNOS/MSAS), GPS active antenna supply: 3.0 V, A-GPS enabled, Protocols: NMEA-0183 V2.3, RTCM, V2.2, UBX binary protocol
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM Card Reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub), GPIO adapter
- Special Features:** Autostart function, WatchDog function



MC Technologies XT75 Terminal and accessoires

Article Description

XT75 GPIO-Terminal - Made by MC Technologies -

Article-No.

XT75 GPIO-Terminal - Made by MC Technologies -	MC1213881-TERM-GPIO
Power supply incl. connecting cable / Western plug, EU plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-UK
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-US
Power adapter Western Plug / open end, approx. 1,5m	MC1213115
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213116
Data cable 1,8m, 9 pin male - 9 pin female	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213150
Mounting Kit incl. 2 fixing bolts	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213116



MC1213150



Mounting Kit TC/MC

MC Technologies XT75 GPIO-USB-Terminal

XT75 GPIO-USB-Terminal - Made by MC Technologies

Quadband - GPRS Class 12 - EDGE Class 10 - JAVA - GPS - GPIO - USB

Technical Data:

- Quadband GSM850/900/1800/1900
- EDGE (E-GPRS) multi-slot class 10
- GPRS multi-slot class 12
- TCP/IP stack access via AT commands
- Supply voltage range: 8 ... 30 V
- Operation temperature: -30°C ... +65°C, Switch off: +90°C
- Extended temperature range: -30 °C ... +85 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: approx. 110 g
- EDGE:** max. 236.8 kbps, Mobile station class B, Modulation and coding scheme MCS 1-9
- GPRS:** max. 86 kbps (DL&UL), Mobile station class B, PBCCH support, Coding schemes CS 1-4
- Data:** CSD up to 14,4 kbps, USSD, V.110, non-transparent mode
- JAVA:** CLDC 1.1 HI, J2ME™ profile IMP-NG, Location API (JSR179) for GPS access, secure data transmission with HTTPS, SSL and PKI
- Open application resources:** ARM® Core, Blackfin® DSP, Memory: 400 kB (RAM) und 1.2 MB (Flash), Support for integrated development environments with On-Device-Debugging
- GPS receiver:** GPS dedicated AT commands, Support for SBAS (WAAS/EGNOS/MSAS), GPS active antenna supply: 3.0 V, A-GPS enabled, Protocols: NMEA-0183 V2.3, RTCM, V2.2, UBX binary protocol
- SMS:** Point-to-Point MO and MT, SMS cell broadcast, Text- and PDU-mode
- Fax:** Group 3, Class 1
- Interfaces:** Power supply, SIM Card Reader, antenna connector FME (male) for GSM and SMA (female) for GPS, RS232 (V.24/V.28 on D-Sub), GPIO adapter, Mini-USB interface
- Special Features:** Autostart function, WatchDog function



MC Technologies XT75 USB-Terminal and accessoires

Article Description

XT75 GPIO-USB-Terminal - Made by MC Technologies -

Article-No.

Power supply incl. connecting cable / Western plug, EU plug	MC1213881-T-GPIO-USB
Power supply incl. connecting cable / Western plug, UK plug	MC1213114-45-EU
Power supply incl. connecting cable / Western plug, US plug	MC1213114-45-UK
Power adapter Western Plug / open end, approx. 1,5m	MC1213114-45-US
12-24V Car adapter 1,5 m cable, Western plug, for battery pack	MC1213115
Data cable 1,8m, 9 pin male - 9 pin female	MC1213116
Mini USB 2.0 cable, 1,8m	MC1213226
Battery pack 100% cutoff incl. cable 0,2 m Western plug (RJ10) / Western plug (RJ12)	MC1213230
Mounting Kit incl. 2 fixing bolts	MC1213150
	Mounting Kit TC/MC



MC1213114-45-EU/-UK/-US



MC1213115



MC1213230



MC1213150



Mounting Kit TC/MC

MC Technologies SMC2

SMC 2 - Made by MC Technologies

Smart modem controller 2, pluggable controller for all usual Cinterion / MC Technologies data modules:

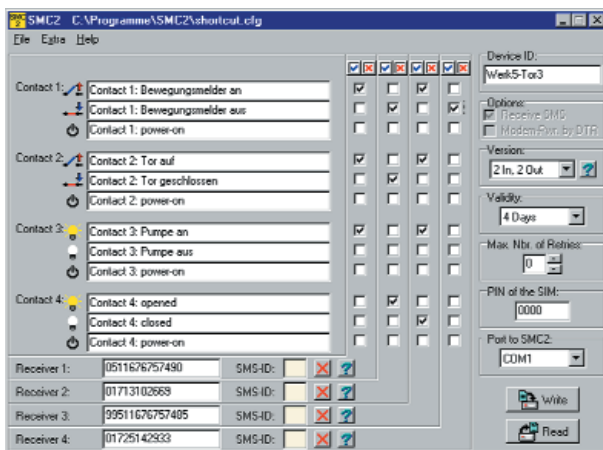
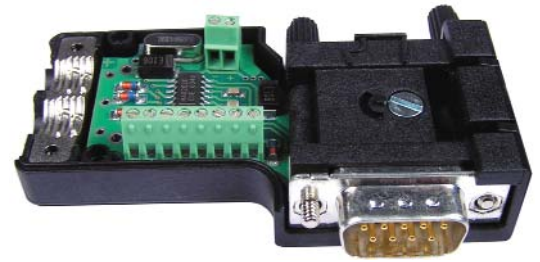
The easiest way of SMS notification !

Version 4xIN:

Small, smart and intelligent - with 4 input ports for transmitting the status of reports and signals via SMS (freely programmable) to up to 4 receivers. Simply plug on to the data modem - that`s it.

Version 2xIN/2xOUT:

Also available as version with 2 input and 2 output ports. They switch the contacts by SMS. As SMC-4i0o, however with two input ports and two open-drain output ports for controlling two machines via SMS.

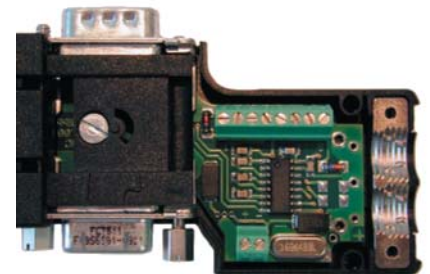


SMC 2 - incl. software

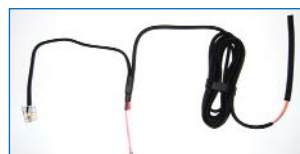
- Single user interface
- Operating Systems: Win 9x / 2000 / ME / XP
- Notification through:
 - SMS to mobile
 - SMS to fax
 - SMS to speech
 - SMS to e-mail
- easy to service

SMC 2 Pipeline

Economical expansion of already existing systems (also of the SMC2 by further input/output ports). The SMC2P is simply plugged in between the Cinterion / MC Technologies data module and the already existing system.



< MC1213114-1
MC1213115-3 >



< SMC-Prog-Adapter

MC Technologies Smart Modem Controller and accessoires










Article Description

SMC2 4 inputs (4xIN)
 SMC2 2 inputs / outputs (2xIN, 2xOUT)
 SMC2 Pipeline 2 inputs (2xIN)
 Programming adapter for TC35iT / TC35iTM / MC35iT / MC35iTM
 Power supply for SMC
 Power cable for SMC


Article-No.

SMC2
 SMC-2I/2O
 SMC2-Pipeline
 SMC-Prog-Adapter
 MC1213114-1
 MC1213115-3

Antennas for special solutions

Article	Article No.	Picture
Antennas for exterior mounting		
850/900/1800/1900 MHz Round emitter incl. 5m Low Loss, FME (f), incl. bracket, 2dB, Ermitter 219mm <i>other lengths and connectors available on request</i>	MC0114009	
900/1800/1900 MHz/UMTS Round emitter incl. 5m Low Loss, FME (f), incl. bracket, 2dB, Ermitter 219mm	MC0114009-UMTS	
900/1800 MHz/UMTS Round emitter 2,15 dBi, N (female), incl. 16,5 cm stainless-steel bracket, white, 405mm	MC0114065-UMTS	
850/900/1800/1900MHz UMTS Round emitter for automatic assembly 2,5 dB, 3m RG174, FME (f), Ø 76mm	MC0114078-Q	
AMPS/900/1800/1900 MHz/UMTS roof antenna without cable, 0 dB, FME (male), Ermitter approx. 90mm	MC0114079	
Magnet foot antennas		
900/1800 MHz Magnet foot antenna 3 dB, 2,5m cable, FME (female), emitter height approx. 195mm	MC0114007	
900/1800 MHz Magnet foot antenna 3,6m RG58 FME (female), D-net 5dB, E-net 3dB, emitter height 320mm	MC0114037	
900/1800 MHz Mini Magnet foot antenna 0 dB, 2,5m cable RG174, FME (female), emitter height 105mm	MC0114033	
900/1800 MHz Magnet foot antenna 3 dB, 3m RG174 FME (female), emitter height approx. 115mm	MC0114052	
850/900/1800/1900 MHz/UMTS Magnet foot antenna, 2 dBi, height 86mm, 2,5m RG174, FME (female)	MC0114027	
850/900/1800/1900 MHz/UMTS Magnet foot antenna, 2 dBi, height 86mm, 2,5m RG174, SMA (male)	MC0114027-SMA-ST	<i>Picture with FME (f)</i>

Antennas for special solutions

Article	Article No.	Picture
Portable antennas		
900/1800 MHz Portable antenna 0 dB, length 100mm, two-way breakable, FME (female)	MC0114031	
900/1800 MHz Portable antenna 0 dB, length 110mm, two-way breakable, SMA (male)	MC0114031-SMA	
900/1800 MHz Portable antenna 1/2 lambda, 2 dB, length approx. 160mm, 5FME (female)	MC0114066	
850/900/1800/1900 MHz / UMTS Portable antenna 0 dB, length 60mm, FME (female)	MC0114113	 <p style="text-align: center;"><i>Picture with FME (f)</i></p>
850/900/1800/1900 MHz / UMTS Portable antenna 0 dB, length 60mm, FME angle (female)	MC0114113-FME-Bu-W	
850/900/1800/1900 MHz / UMTS Portable antenna 0 dB, length 60mm, SMA (male)	MC0114113-SMA	
850/900/1800/1900 MHz / UMTS Portable antenna 0 dB, length 60mm, SMA angle (male)	MC0114113-SMA-W	
824-960/1710-1990 MHz Mini antenna 0 dB, length approx. 40mm, SMA (male)	MC0114014	
824-960/1710-1990 MHz Mini antenna 0 dB, length approx. 40mm, FME (female)	MC0114015	
824-960/1710-1990 MHz Mini antenna 0 dB, length approx. 40mm, FME (female) bent	MC0114015-FME-Bu-W	
Sticking antennas		
850/900/1800/1900/GPS/UMTS sticking antenna, 3m RG174, GSM=FME (f), GPS=SMA (m), 100x66x19mm	MC0114050	 <p style="text-align: center;"><i>Picture with FME(f)/SMA(m)</i></p>
850/900/1800/1900/GPS/UMTS sticking antenna, 3m RG174, GSM=Fakra (f) bordaux / GPS=Fakra (f) blue, 100x66x19mm	MC0114050-fakra-C-D	

General Term of Sale

§ 1 General; Applicability

- (1) Our terms of sale shall be applicable exclusively. We shall not recognize any terms of the purchaser which conflict with, or deviate from, our terms of sale unless we have explicitly accepted them in writing. Our terms of sale shall also be applicable in cases where we perform delivery to the purchaser without reservation, knowing about terms of the purchaser that conflict with, or deviate from, our terms of sale.
- (2) The contract includes in writing all agreements made between us and the purchaser for the purpose of its implementation.
- (3) Our terms of sale shall only apply to companies as defined by § 310 para. 1 BGB (German Civil Code).
- (4) Partial delivery has to be accepted as far as the delivery is reasonable.

§ 2 Offer; Offer Documents

- (1) If the order is to be considered an offer under § 145 BGB we may accept it within 2 weeks.
- (2) We shall reserve ownership and copyright of any illustrations, drawings, calculations and other documents. This shall also apply to written documents classified as "confidential". The purchaser shall not hand them over to third parties unless explicitly authorized to do so by us in writing.

§ 3 Prices; Payment Terms

- (1) Unless specified otherwise in our order acceptance our prices shall apply "ex works", not including packaging, which shall be charged separately.
- (2) Our prices shall not include statutory value-added tax. VAT shall be listed separately in the invoice at the statutory rate applicable on the invoice date.
- (3) Discounts shall not be applicable unless agreed explicitly in writing.
- (4) Unless specified otherwise in the order acceptance the full net sales price shall be due for payment within 30 days from the invoice date. The statutory provisions for consequences of default in payment shall be applicable.
- (5) The purchaser shall not have any rights to offset mutual claims unless his counter-claims have been legally established and are uncontested or have been recognized by us. Furthermore he shall have the right to retain payment to the extent his counter-claim is based on the same contractual relationship.
- (6) In so far as we have assumed the erection or assembly function unless otherwise agreed the purchaser shall bear all the necessary ancillary costs in addition to the agreed compensation, e.g. travelling costs, costs for the transport of tools and of personal luggage.

§ 4 Delivery Period

- (1) The delivery period specified by us shall begin once all technical issues have been clarified.
- (2) Purchaser's timely and proper fulfilment of his obligations shall be a prerequisite for us to meet our obligation to deliver. We shall reserve the right to the defence of non-performance of the contract.
- (3) If the customer is in default of acceptance or violates by negligence or intent any other obligations to co-operate we shall have the right to claim compensation for any damage we have suffered including any extra expenditure. We shall reserve the right to make any further claims.
- (4) If the conditions described in para. (3) apply the risk of accidental loss or accidental deterioration of the object of sale shall be transferred to the purchaser at the moment when he has defaulted on acceptance or payment.
- (5) We shall bear the statutory liability if the underlying contract is a transaction for delivery by a fixed date under § 286 para. 2 no. 4 BGB or § 376 HGB (German Commercial Code). We shall also bear the statutory liability if a default in delivery for which we are responsible results in the purchaser's right to state that he has lost interest in the further implementation of the contract.
- (6) We shall also bear the statutory liability if our default in delivery was due to our breach of contract by intent or gross negligence. Culpable action by our representatives or vicarious agents shall be attributable to us. Unless the default in delivery is based on our intentional breach of contract our liability for damages shall be limited to the foreseeable damage that may typically occur.
- (7) We shall also bear the statutory liability if our default in delivery was due to our culpable violation of a material contractual obligation. In such cases our liability for damages shall be limited to the foreseeable damage that may typically occur.
- (8) In the event of default in delivery we shall further bear the statutory liability up to a lump sum compensation for default of 0.5 % per full week of default, the maximum being 5 % of the value of the delivery.
- (9) Further statutory claims and rights of the purchaser shall be reserved.

§ 5 Transfer of Risk; Packaging Costs; Assembly and Erection; Acceptance

- (1) Unless specified otherwise in our order acceptance the agreed form of delivery shall be "ex works".
- (2) In so far as delivery is agreed with erection or assembly the risk shall be transferred on the date of acceptance in the own operations of the purchaser or, if agreed, after a perfect trial run.
- (3) We shall not take back any transportation packaging and other packaging as specified in the Packaging Ordinance, except pallets. The purchaser shall be obliged to ensure disposal of the packaging at his own expense.
- (4) In so far as we insist on acceptance of delivery after completion the purchaser shall undertake this within two weeks. If this is not done acceptance will be deemed to have been made. Acceptance shall equally be deemed to have been made if delivery has been put into service or if agreed upon after the end of an agreed trial period.
- (5) If requested by the purchaser we shall take out a transportation insurance for the delivery. The according costs shall be borne by the purchaser.

§ 6 Liability for Defects

- (1) The purchaser shall not have the right to make claims based on defects unless he has fulfilled the duty to examine the goods/service and give notice under § 377 HGB.
- (2) If the object of sale has a defect the purchaser shall be entitled, at his discretion, to remedy by repair or to delivery of a new, flawless object of sale. In the event of remedy by repair we shall be obliged to bear all necessary costs of the repair, especially transportation, travel, labour, and material costs, not including additional costs caused by transportation of the object of sale to a place other than the place of delivery/performance.

(3) If remedy fails the purchaser shall have the right, at his discretion, to demand rescission of the contract or a price reduction.

(4) We bear the statutory liability if the purchaser asserts claims for damages on the grounds of actions involving our, our agents' or our vicarious agents' intent or gross negligence. Unless we are charged with intentional breach of contract our liability for damages shall be limited to the foreseeable damage that may typically occur.

(5) We bear the statutory liability if we culpably violate any material contract provision. In such cases our liability for damages shall be limited to the foreseeable damage that may typically occur.

(6) Liability for culpable injury to life, body and health shall remain unaffected. The same shall apply to mandatory liability under the German Product Liability Act.

(7) Unless specified otherwise above any liability shall be excluded.

(8) The limitation period for claims based on defects shall be 12 months, beginning upon transfer of risk.

(9) The limitation period in the event of recourse on delivery under §§ 478, 479 BGB shall remain unaffected. It shall be five years, beginning upon delivery of the defective goods.

(10) Our guaranty may be refused in the event of delay of payment or loss of credit.

§ 7 Total Liability

(1) Any further liability for damages beyond the provisions of § 6 shall be excluded, regardless of the legal nature of the asserted claim. This shall apply especially to claims for damages resulting from culpa in contrahendo, breach of other obligations or claims in tort for compensation of property damage under § 823 BGB.

(2) As far as our liability for damages has been excluded or restricted the same shall apply with regard to the personal liability for damages of our staff, representatives and vicarious agents.

§ 8 Retention of Title

(1) We shall retain title to the object of sale until all payments under the delivery contract have been received. In the event of a breach of contract by the purchaser, especially default in payment, we shall have the right to take the object of sale back. Taking back the object of sale shall not constitute a rescission of the contract unless we have explicitly declared rescission in writing. Seizure of the object of sale by us shall always constitute a rescission of the contract. After taking back the object of sale we shall have the right to realize it. The realization revenue shall be subtracted from the purchaser's obligations to us – less adequate realization costs.

(2) The purchaser shall treat the object of sale with care. He shall be obliged to insure it, at his own expense, against damage caused by fire, flood and theft at a sufficient repurchase value. Any necessary maintenance and inspection work shall be done by the purchaser in good time at his own expense.

(3) In any event of seizure or other third party action the purchaser shall immediately inform us in writing to allow us to take legal action under § 771 ZPO (German Code of Civil Procedure). Unless the third party is able to refund our court expenses and legal fees of an action under § 771 ZPO the purchaser shall be liable for the loss suffered by us.

(4) The purchaser shall be entitled to sell the object of sale in the course of regular business. However, by entering the contract with us the purchaser shall already assign to us any claims against his customer or third parties from such sale up to our total invoice sum (incl. VAT). This provision shall apply regardless of whether or not the object of sale has been processed before sale. Notwithstanding such assignment the purchaser shall have the right to collect such claims. Our right to collect such claims ourselves shall remain unaffected by this clause. We undertake not to collect any claims as long as the purchaser meets his payment obligations from the revenue he has received, does not default on payment and as long as no bankruptcy, composition or insolvency proceedings have been opened or cessation of payments has occurred. If this is the case, however, we shall have the right to demand that the purchaser inform us of all assigned claims and the respective debtors, hand over to us all documents required for collection and inform the debtors (third parties) of the assignment.

(5) Any processing or transformation of the object of sale by the purchaser shall be on our behalf. If the object of sale is processed with other objects not belonging to us we thereby acquire an ownership share in the new object on a pro rata basis relating to the value of the object of sale (total invoice sum, incl. VAT) and the value of the other processed objects at the time of processing. Otherwise the provisions governing our object of sale delivered with reservation of title shall also be applicable to the object created by processing.

(6) If the object of sale is inseparably mixed with other objects not belonging to us we shall thereby acquire an ownership share in the new object on a pro rata basis relating to the value of the object of sale (total invoice sum, incl. VAT) and the value of the other objects mixed with it at the time of blending. If mixing occurs in such a manner that the purchaser's object is to be considered the main object the agreement is that the purchaser shall transfer a pro rata ownership share to us. The purchaser shall keep the property in our ownership or co-ownership on our behalf.

(7) In order to secure our claims against the purchaser the purchaser shall also assign to us such claims against third parties as arise from the combination of the object of sale with a piece of real property.

(8) We undertake to release, upon the purchaser's request, the securities provided to us to the extent the achievable realization value of our securities exceeds the secured claims by more than 20 %. We shall have the right to select the securities to be released.

§ 9 Place of Jurisdiction; Place of Performance

(1) If the purchaser is a merchant the place of jurisdiction shall be our company seat. We shall also have the right to bring an action against the purchaser in the court of his residence.

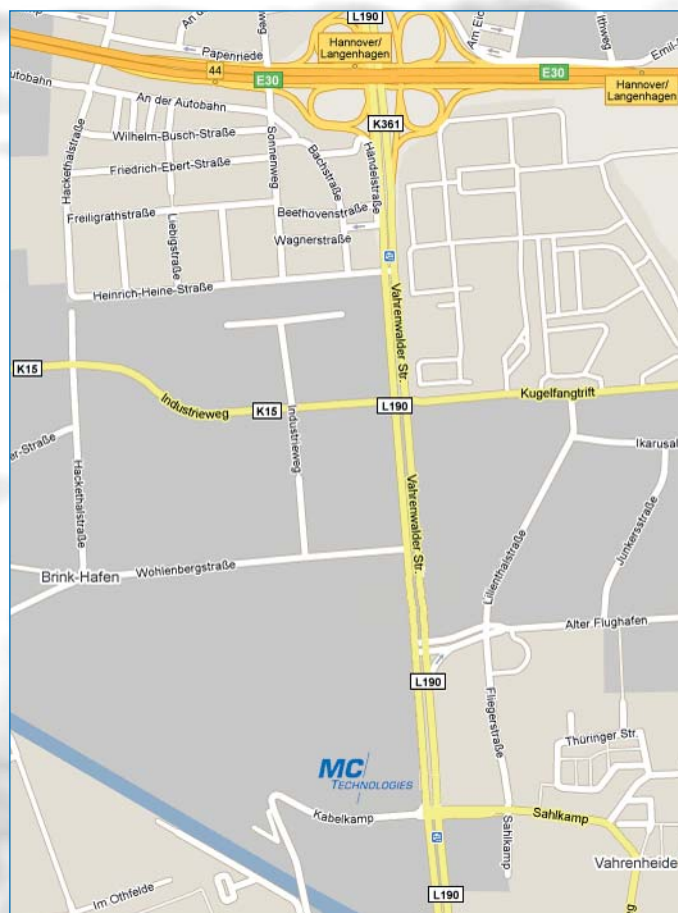
(2) German law shall be applicable. Application of the UN Sales Convention shall be ruled out.

(3) Unless specified otherwise in our order acceptance the place of performance shall be our company seat.

§ 10 Severability clause

This contract shall remain valid even if individual provisions thereof are ineffective or are invalid. This shall not apply if adherence to the contract would cause an unreasonable hardship for one of the parties. The parties to this contract will cooperate in order to replace the invalid provision by a valid provision which comes closest to the original economic intention of the parties.

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