

BMCU MoPad

At the cutting edge of ideas



BMCU MoPad

For the data gaps



SPECIFICATIONS, OPTIONS AND FIELDS FOR APPLICATION

The **BMCU-MoPad** provides the correct hardware platform for each process.

Mobile order registration and processing

1. Decentralised order acquisition and transfer capability from device to device.
 2. Online entry of process information and documenting of order progress.
 3. Registering of process information such as GPS coordinates, barcodes and RFIDs.
- Direct integration with the process thus allows utmost transparency and short throughput times.

Logistics – parcel and delivery services

1. Receive shipment orders online, optimal vehicle navigation and tracking.
 2. Identify shipped goods by RFID and barcode.
 3. Process offline packing lists and transfer current statuses to the control centre.
 4. Digital signature entered directly on the display in the shipment order.
- With the **BMCU-MoPad** you don't have to be a „global player“ to optimize your logistics.

Health care

1. Secure access to patient data, medications, laboratory values, etc. by fingerprint authentication.
 2. Online acquisition of data from a hospital information system through an encrypted connection, e.g. on a terminal server.
 3. Hospital-friendly EMC values, e.g. when using WLAN.
 4. The required protection class makes it suitable for use in sterilised environments.
- With the **BMCU-MoPad** allows secure, location-independent access to the latest medical data.

Always at your side outside. The **BMCU-MoPad** is a Biometric multi-capture unit. It is a mobile device that combines the rough-and-tumble work experience far from desks with all the possibilities of the mobile data world. The **BMCU-MoPad** focuses on the essential. It offers more than a cell phone, is not overly complex like a laptop and is extremely robust. This is made possible by the unique user concept from the innovative technology attractive design, easily handling and extraordinary reliability. All that at a favourable price/performance ratio and made in Germany.

Where is the **BMCU-MoPad** used? Where employees are always on the go, do not have much time, but always need readable work procedures. Up to now, optimal business processes have often come to grief when the work process has to be made transportable.

Special software solutions could not be transported. Now they can be with the **BMCU-MoPad**.

The **BMCU-MoPad** is intuitive to use with a 7" touch display that can be used in daylight. The security of the data is ensured with an integrated fingerprint sensor and saved biometric data. Interfaces for LAN, WLAN, GSM, EDGE, RFID, barcode imagers, GPS and Bluetooth offer high degree of flexibility. All entered data is secure, available and evaluable anytime. A long battery charge time (300 hours standby, more than eight hours continuous operation) and the variety of accessories make the **BMCU-MoPad** a reliable companion.

Mobile data acquisition in forestry applications

Using the **BMCU-MoPad** the whole process chain is made location-independent.

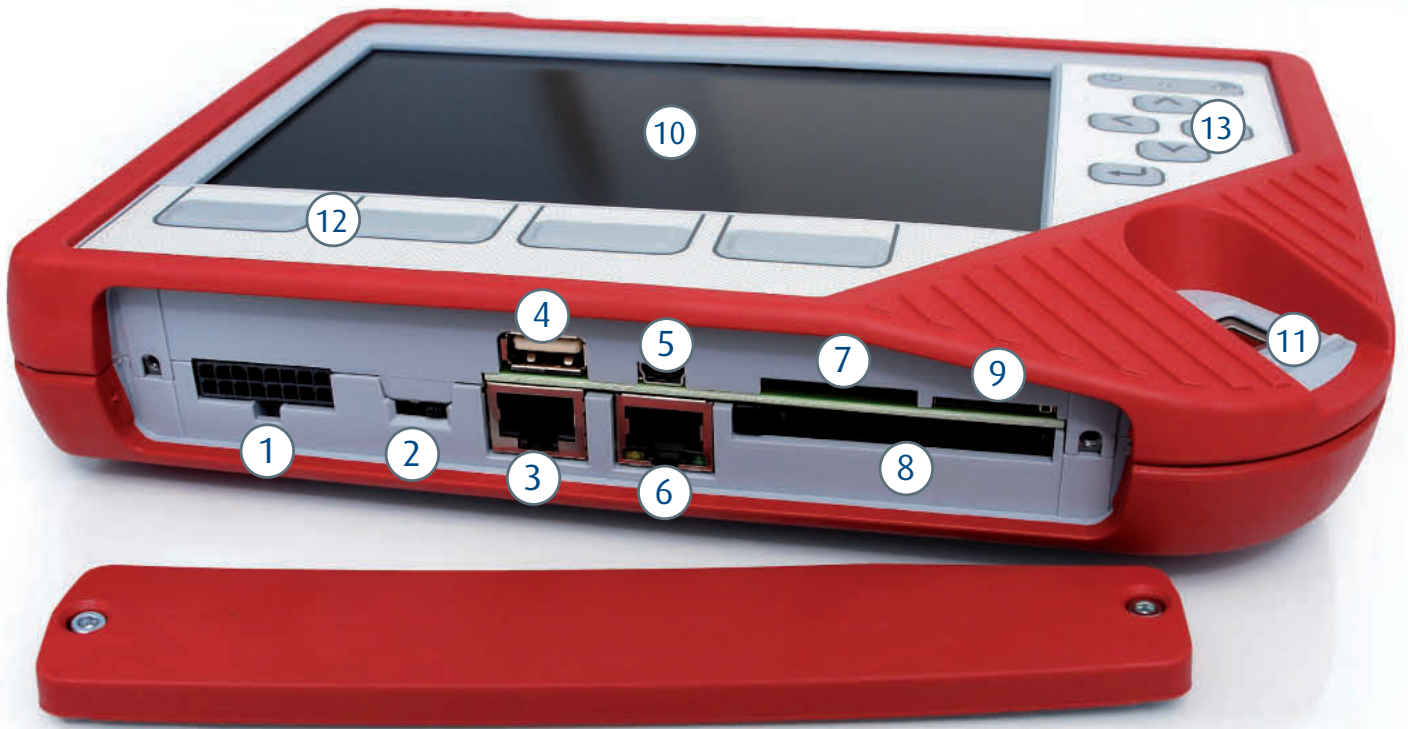
1. Locate trees by GPS and register them online.
2. Control and monitor distributed processes effectively.
3. Optimise the transport logistics by navigation and route guidance.

The **BMCU-MoPad** can be used safely even in extreme ambient conditions.



BMCU MoPad

For the connection



BMCU-MoPad AUSSTATTUNG

- | | | |
|---|-----------------------|--|
| 1 System Connector C1 | 2 Main Switch S1 | 3 RS232 (COM1) |
| 4 USB-A (Host) | 5 USB-B (Client) | 6 Ethernet Connector |
| 7 SD/ MMC- Card Slot | 8 CF-Card Slot | 9 SIM- Card Slot |
| 10 7" TFT display, suitable for use in daylight | 11 Fingerprint Sensor | 12 4 freely programmable function keys |
| 13 Cursor keys | | |

BMCU-MoPad SOLUTIONS AND EQUIPMENT VERSIONS

Sales
 Service
 Logistics
 Storage
 Production
 Delivery service
 Time recording
 BDE
 Industrial terminal
 Forklift terminal
 Rescue services
 Forestry
 Mobile patient records
 Outpatient care
 Machine control
 mobile GIS
 Navigation systems
 Security services
 CRM
 Workforce management
 time management
 Daily construction records
 Mobile Field Force Solutions

Our devices combine a number of cutting-edge hardware components into a single innovative overall approach. They offer a large touch display, security, long battery charge times, mobile data connections, interfaces, a simple operating approach and robustness. A mobile device for people who are all thumbs with a unique user concept. The solution when the PDA is too small and the laptop becomes too large!

A modular, robust, professional device: **BMCU-MoPad**

BMCU-MoPad comes with standard features

- CPU XScale™ PXA270 312MHz
- CF- Card Slot
- USB Host and USB Slave
- Digital entrances and exits
- GSM/ GPRS/ EDGE and GPS modules with integrated antenna
- 7" TFT, 800 x 480 (15:9 format) suitable for use in daylight
- SD/ MMC- Card Slot
- Lithium polymer rechargeable battery pack
- RFID- Reader for RFID memory cards (ISO 14443a)
- Ethernet 10/100 MBit/s (TCP/IP)
- Membrane keyboard
- Fingerprint Sensor
- RS232

BMCU-MoPad WLAN

Standard features
 + Wireless LAN
 802.11b/g
 + Bluetooth v2.0+EDR

BMCU-MoPad XL

Standard features
 + 2D barcode Imager

BMCU-MoPad XL WLAN

Standard features
 + 2D barcode Imager
 + Wireless LAN
 802.11b/g
 + Bluetooth v2.0+DER



BMCU MoPad

An acquired taste



Additional technical specifications of different versions:

BMCU-MoPad Mobil WLAN

BMCU-MoPad XL

BMCU-MoPad XL WLAN

Wireless communication	Wireless PAN	Bluetooth Class II, v2.0+EDR, internal antenna
	Wireless LAN	IEEE 802.11b/g, internal antenna
Regulations / Approvals / Tests	WLAN / Bluetooth	EN 300 328 V1.7.1 (2006-10) EN 301 489-17 V1.2.1 (2002-08)
	Other modules	Barcode 1D and 2D symbols (PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesa, Code 49, UCC Composite, Code 39, Code 128, Codabar, UPC, EAN, Interleaved 2 of 5, Reduced Space Symbology, Code 93, Codablock)

Dimensions:	(W x H x D): 230 x 155 x 38 mm	Memory	PXA270	312MHz	64MB RAM	32MB Flash
Weight	from 850g		PXA310*	624MHz	128MB RAM	512MB Flash
Application buttons	4 freely programmable function keys Cursor navigation + Enter On/Off (multifunction button) with tactile feedback		PXA320*	806MHz	128MB RAM	1.024MB Flash
Display	7" TFT, 800 x 480 (15:9 format) suitable for use in daylight	Wireless communication	Wireless WAN		GSM, GPRS, Multislot Class 12, MCS 1-4 GSM, EGPRS, Multislot Class 10, MCS 1-9*	
Status LED	2 power and communication status LEDs		RFID		125kHz (hitag1, hitag2, EM4102)* ISO 14443a/ ISO 14443b*	
External I/O interfaces	USB host and USB client one 16 pin system connector · 3 x I/O · 1x relay (changeover contact) · power supply Power supply Serial (RS232) CF-Card Slot SD/ MMC-Card Slot Ethernet		GPS		16 channel Assisted GPS (A-GPS) Differential GPS (DGPS) Satellite Based Augmentation Systems (SBAS)	
Interface loading	Relay · max. switching voltage AC/DC 24V · max. switching current (ohmic) 2A · max. continuous current (ohmic) 2A Note: To protect the relay coils and contacts, inductive consumers must be dampened with an effective protection circuit! Effective protection measures must be taken to limit all voltages and currents to the stated values (limited power sources).	Ambient conditions	Working range -20 to +60 °C Drop test 1m each side (EN 60068-3-32) ESD electrostatic discharge as per EN/ IEC 61000-4-2 chem. resistance of casing and keypad surface Storage temperature -20 to +60 °C Humidity 65 % ± 20 % RH, without condensation Protection from splash water and dust deposits			
I/O connections	Used as input · max. input voltage DC 24V Used as output · max. current load 5mA · Output voltage (high) min. 2.7V max. 4.3V · Output voltage (low) min. 0V max. 0.7V	Regulations / Approvals / Tests	Health and safety	EN 60950-1		
Audio	Microphone and internal speaker		electromagnetic compatibility	ETSI EN 301 489-1		
Power supply	Integrated lithium polymer rechargeable battery, capacity 3750mAh Charging time less than 4h up to 9h operating time (continuous) StandBy-times: · minimum (without GSM on standby) up to 300h · medium (with GSM on PowerSave) up to 180h External power supply 10V to 16V DC, 1.5 A		effective use of frequency spectrum	ETSI EN 300 330		
Operating system	Windows CE 5.0 Core / Pro* / Pro Plus* Windows CE 6.0 Core / Core Plus* / Pro*		Temperature and climate test	EN 60068-2-1 EN 60068-2-2 EN 60068-2-14 EN 60068-2-78		
Dual processor system chipset	Power management co-processor XScale™ PXA270 / PXA 310* / PXA320*		Mechanical tests	EN 60068-2-6 EN 60068-2-64 EN 60068-2-27 EN 60068-2-32		
		Optional accessories	Environmental	RoHS konform		
			Quad-Band GSM/EDGE	EN 301 511 V9.0.2		
			Mains adapter 100 - 240VAC / 47 - 63Hz			
			TouchPen			
			In-vehicle charging adapter* 11 - 28VDC			
			Auto holder*			
			Wall bracket*			
			RFID-card*			
			USB-B cable*			
			Carry handle*			

* at extra charge





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