



## MMS Hardware.



## **STILL MMS – intelligent software.**

### **The STILL MMS – ideally suitable for complex requirements.**

The STILL Materialflow Management System (MMS) is a complete Warehouse Management System (WMS), by means of which all goods and information flows along the entire intralogistics chain can be controlled, depicted and analysed – and this for several locations and most various branches from production, trade and services. In the STILL system solution, all hardware and software components from STILL Terminal over warehouse management through to the order picking system are of modular design and compatible with one another. The application offers numerous functions and advantages:

- current and warehouse location based stock inventory by means of a complete documentation of all goods movements including support of the permanent stocktaking
- efficient control of all goods movements for optimised warehouse location and transport capacity utilisation
- purpose-coordinated allocation of vehicles, employees and means of transport for the activities within the material flow
- control and overview of all warehouse movements (incoming goods, order picking, tours, loading etc.) by the control station
- extensive analysis and evaluation possibilities of all stocks and goods movements in the warehouse
- modern, update-/release-capable system architecture for hardware, software and the incorporation into existing customer systems
- flexible usage of warehouse management, transport and/or order picking systems as independent solutions or STILL MMS modules
- Connection of STILL driver assistance systems and STILL automation solutions for optimum vehicle utilisation in the warehouse
- purpose- and vehicle coordinated hardware (e.g. electrical and mechanical preparation for STILL terminals as well as printers and scanners)

## STILL touch terminal.

### The STILL touch terminal – the on-board connection to the STILL MMS.

Computer-controlled material flow management systems require a robust terminal, adapted to the task on board the industrial trucks. The STILL touch terminal creates the online connection from the vehicle to the material flow computer in warehouse and transport facilities. Travel orders appear directly on board the vehicle. Removals, stocktaking and other transactions can thus be entered online. Operation takes place via a touch technology designed for permanent use.

The STILL touch terminal is especially developed for extreme industrial service and is ideally suitable not only for mobile but also for stationary use in industrial, commercial and logistics applications.

### The display.

The standard STILL touch terminal model offers an extensive, highly-detailed display, on which even complex data and graphics can be well depicted. It is available in sizes 8.4 and 12.1 inches.

### Ideal for industrial trucks – ergonomically perfectly integrated.

The touch terminal series is perfectly and ergonomically integrated into the entire STILL industrial trucks program. The compact devices are easy to install, even if only little space is available, and offer optimum ease of operation due to a rotary tiltable bracket. All STILL counterbalance forklift trucks and warehouse trucks are equipped upon customer request with an electrical and mechanical preparation for the STILL touch terminal. The mechanical interface corresponds with the standard VESA 75.

### The right terminal for any application.

Wherever you depend on the online connection to a computer-controlled system: STILL has the suitable terminal for you. A robust electronic housing sealed in accordance with the industrial standard IP65 enables the use of the standard version, even in extreme ambient conditions. The special models guarantee reliable performance even in outdoor or deep-freeze areas.



	STILL Touch Terminal 8,4"	STILL Touch Terminal 12,1"
Display	- 8,4" colour TFT (suitable for daylight 400cd/m2), 800 x 600 Pixel	- 12,1" colour TFT (suitable for daylight 400cd/m2), 800 x 600 Pixel
Touchscreen	- analogue-resistive touch screen 5-wire technology	
Pixel fault class		
Dimensions	275 x 195 x 62 (75mm) (W x H x D)	340 x 250 x 62 (75 mm) (W x H x D)
Weight	approx. 2.95 Kg without bracket	approx. 3.95Kg without bracket
Operating temperatures	Standard: Temperature range 0 °C to +40 °C	
	Outdoor: Temperature range -25 °C to +40 °C	
	Deep freeze: Temperature range -30 °C to +40 °C	
Power supply/output	- Uin → typ.24 VDC/30 W	
Frequency bands	802.11a ISM band: 4,900 - 5,800 GHz	
	802.11b/g ISM band: 2,400 - 2,4835 GHz	
Antenna	2x internal antenna for space diversity	
CPU	Intel® ATOM 1,1GHz / optionally: Intel® ATOM 1,6GHz	
Main memory (RAM)	1 GB / optionally: 2GB	
Mass memory (Flash)	4 GB	
Operating system	Windows Embedded Standard 2009/Linux	
Interfaces	1x RS232, 1x LAN, 2x USB / optionally: 1x CANBUS	
Protection class	IP65	
Bracket	Rotary tiltable bracket/VESA 75 standard	
Vehicle bracket	By means of adapter for STILL vehicles, available ex factory	

Subject to technical modifications without notice.

## Industrial scanners.

### Fast goods registration for optimum flows.

The basis of comprehensive goods tracking is fast and mobile data recording. The prerequisites for data recording on the products to be transported or on the goods are on the one hand a “legible“ label (bar code) and of course, reliable reading equipment on the other hand. For this, STILL relies on highly-developed industrial scanners and handheld computers from well-known manufacturers. The selected devices have excellent scanning properties and are designed for tough use in many industrial environments. The most various functions enable optimum flexibility and productivity, even in difficult ambient conditions. Of course, STILL also offers corresponding accessories to match the industrial scanners, such as the scanner bags that are especially designed for vehicle integration.



	Symbol LS3408ER	Symbol LS3578ER	Datalogic PD8300AR	Datalogic PM8300AR
Light source	650 nm laser diode	650 nm laser diode	630 to 680nm laser diode	630 bis 680 nm Laserdiode
Reading range (depending on resolution, ambient light, print contrast of the bar code)	10 cm to 14 m	10 cm to 14 m	10 cm to 12 m	10 cm to 12 m
Weight	420 g	420 g	395 g	395 g
Dimensions (W x H x D) mm	122,5 x 186,5 x 74,3	122,5 x 186,5 x 74,3	206 x 114 x 69	207 x 114 x 69
Interfaces	USB (Standard STILL), RS232, scanning pen emulation, IBM 68X/469X, synopsis	USB (Standard STILL), RS232, scanning pen emulation, IBM 468X/469X, synopsis	USB (Standard STILL), RS232, RS485, BC8060, keyboard emulation	USB (Standard STILL), RS232, RS485, BC8060, keyboard emulation
Operating temperature	-20 to +50 °C	-20 to +50 °C	-20 bis +50 °C	-20 bis +50 °C
Protection class	IP65	IP65	IP65	IP65
Fall resistance	Resistant to multiple falls onto concrete from a height of 2 m	Resistant to multiple falls onto concrete from a height of 2 m	Withstands 50 falls onto concrete from a height of 2 m	Withstands 50 falls onto concrete from a height of 2 m
Rechargeable battery	-	Lithium-ion battery/2200 mA	-	Lithium-ion battery/2200 mA
Range, radio	-	2,402 - 2,480 Ghz adaptive frequency hopping for trouble-free operation in 802.11-environments /range 100m for direct visual connection	-	up to 50m at 433.92 MHz, 30m at 910 MHz
Radio technology	-	Bluetooth, class 2, version 1.2, serial port and HID profile	-	433.92 MHz; 910 MHz
Vehicle bracket	STILL scanner bag	STILL scanner bag	STILL scanner bag	STILL scanner bag

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## Handheld-Computer.

### Mobile intelligence.

Behind the robust construction of the handheld computer there is sophisticated mobile technology even for the most complex applications in your warehouse. This enables the mobile employees to achieve flexible data recording and access to important information in real time.

### Ergonomic, powerful and multifunctional.

Strong enough for the warehouse, ergonomically designed for easy, convenient applications even beyond standard working hours – these are only a few of the major product properties of the mobile handheld computer. The devices unite all important data recording, display and input functions with modern wireless communication technology. The handy mobile computers are equipped with a digital camera, touch screen and keyboard, 1D and 2D imagers and a laser scanner for bar codes and partly even enable the reading and writing of RFID tags.



		LXE MX7	LXE MX8	Psion Teklogix 7535	Motorola MC9090
Display		Colour display TFT 240 x 320	Colour display TFT 240 x 320 pixels	Colour display 240 x 320 VGA	WIN CE: 3.7in, QVGA mono or colour Windows mobil: 3,7 in. QVGA color only
Keyboard		32 keys alphanumerical, 5 function keys + user-definable function keys, touch screen	55 or 32 keys alphanumerical, 5 function keys + user-definable function keys, touch screen	Alpha keyboard with 58 or 36 large keys and 6 or 10 pre-programmed function keys, touch screen	28, 43 and 53 keys
Dimensions (H x D x W) mm		193 x 71 x 46	223 X 86 x 50	260 x 62,5 x 102	231 x 91 x 193
Weight		377g, incl. battery, scanner and radio card	595g incl. radio cars, battery, scanner and handle	710 g, mit Batterie/mit Griff 835 g	709g incl. battery, scanner and radio
Operating temperature		-10 °C to 50 °C	-10 °C to 45 °C	-10 °C to 50 °C	-20 °C to 50 °C
Drop test		several times onto concrete from a height of 1.5 m	several times onto concrete from a height of 1.5 m, with rubber protective sleeve	mehrere Stürze auf Beton aus 1,5 m Höhe	several times onto concrete from a height of 1.8 m
Protection class rain/dust		IEC 60529/protection class IP54	IEC 60529/ protection class IP54	IEC 529/Schutzart IP65	Protection class IP 64
Power supply		3.7V Li-ion battery, 3000 mAh, battery state warning	7.2V Li-ion battery, 2200 mAh, with state warning, programmable power management	7,4 V bei 1900 mAh LI-Ion Hochleistungsakku	7.2V at 2200 mAh LI-ion battery
Frequency range		2.4MHz 802.11b/g, Wi-Fi certified internal antenna	2.4MHz 802.11b/g, Wi-Fi certified internal antenna	Direct Sequence IEEE 802.11b, 11Mbps, 2,4 GHz Compact Flash Card	Direct Sequence 802.11 a/b/g
Processor		Intel Xscale PXA 270 520 MHz processor	Intel Xscale PXA 255 400 MHz processor	Intel Xscale PXA 270 520 MHz Prozessor	Intel Xscale Bulverde PXA270 624 MHz processor
Memory		128 MB RAM, 128MB Flash (opt. 512MB or 1GB) MiniSD Card	128 MB RAM, 128 MB Flash	WIN CE: 128 MB SDRAM/ 64 MB Flash	WIN CE: 64 MB RAM (opt. 128 MB) /64 MB Flash WIN mobile: 64 MB/ 128 MB (opt. 128/128 MB)
Emulation (optional)		RF-terminal emulation, VT220, TN3270, TN5250 (optional)	RF-terminal emulation, VT220, TN3270, TN5250 (optional)	ANSI, TESS Emulationen; IBM 3270, 5250, HP2392	
Scan lens		Standard range, 1D and 2D imager	Standard range, all-range (10cm - 12m) 1D imager	Standard Range, Advanced Long Range, 1D und 2D Imager, RFID Engine	Standard range, extended range, 1D and 2D imager
Vehicle bracket	mechanical electrical	By means of adapter for various vehicle types	By means of adapter for various vehicle types	By means of adapter for various vehicle types	By means of adapter for various vehicle types

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## Label printer.

### Efficient label printing – with label printers from our product range.

In order to ensure smooth material and information flow, the labelling of the goods is just as essential as the recording of the data. From warehousing to retrieval of the goods, diverse printing tasks usually occur, such as bar code labels to directly stick to the items on site, new labelling of actual stocks etc. Therefore, mobile and stationary bar code printers are just as important to STILL as laser scanners and handheld computers. And here again, STILL relied on robust and powerful devices of well-known manufacturers

### Wireless, online and mobile.

Modern order picking is carried out using online data terminals. After completion of the picking process, pricing of the goods is necessary in most cases. The current item data can be directly printed on site with a mobile printer on the industrial truck – on demand. No more need to go to a stationary printer. This saves times and prevents errors.

### Especially designed for installation on fork-lift trucks.

Specific kits enable installation and de-installation on STILL industrial trucks. Due to a small space requirement and special mounting plates, the mobile printers can be used in almost any position.

### Optimum performance in stationary applications.

The stationary industrial printers selected by STILL have already proven themselves in numerous industrial applications by means of their capacity, reliability and indestructible construction. Thanks to trendsetting technologies, the models offer

- extremely high printing speeds up to 203 mm/s
- high printing qualities, even for large-scale labels (formats up to DIN A4)
- avoidance of costs or downtimes due to a ribbon saving function
- high flexibility due to numerous interfaces
- guaranteed future thanks to the compatibility with other systems as well as RFID options

The corresponding software for the industrial printers is of course included in the scope of delivery.



	MP Compact 4 mobil	Toshiba TEC stationary (B-SX4T)
Dimensions (H x W x D) mm	125 x 260 x 230	308 x 460 x 291
Weight	4.5 kg	18 kg (without media and colour ribbon)
Working temperature	5 °C to 40 °C	
Power supply	24-48 V DC, 120 V A	230 V
Labels	Thermal direct	Thermal transfer and thermal direct
Resolution	200 dpi	203 dpi
Max. label roll diameter	100 mm	
max printing width	40 to 104 mm	104 mm
Printing speed	125 mm/s	max. 254 mm/s
Interfaces	RS-232 (serial), USB 2.0-compatible, Ethernet-LAN 10/100	2x serial; parallel; Ethernet
Options	WLAN 802.11 b/g with WPA2-security protocol	Dispenser module & winder, USB interface, integral LAN board, memory wide I/O, 2-slot-PCMCIA I/F board, RFID kit
Application	Vehicle printer/electr. + mech. preparation in various STILL vehicles available	stationary/on WE trolley with DC-AC convertere

## Pick-by-Voice.

### The focus is on mobility, flexibility and load-bearing convenience.

With Pick-by-Voice, voice-controlled dialogue systems are designated, which serve to optimise workflows. With the Voice-Client, STILL provides a device that has set standards with regard to its speaker-independent speech recognition and software, apart from its technical features.

The Voice-Client unites the possibility of highly-developed speaker-independent voice systems with a design-oriented housing.

A client with online communication to the application server offers all advantages of the radio-based voice system:

- Ergonomic, easy operation with an extremely flat shape.
- Length of operational readiness suitable for everyday requirements due to high battery performance (power battery).
- Wireless use of all peripheral devices due to reliable Bluetooth technology.
- Cost-saving due to operation without speech profiles (speaker-independent).
- More flexible and time-saving use in various fields, online booking at picking level.

Due to Bluetooth technology, the use of classical plug-in contacts can be fully omitted when connecting the peripherals. Of course, the advantages of the voice system can also be used with cable based accessory components.

Technical data:

- Speech synthesis on the client.
- Integrated Bluetooth module.
- Integrated WLAN module IEEE 802.11 a/b/g.
- Integrated antennas for broadband radio / Bluetooth.
- Operating system Linux.
- ARM11™ bas. industrial PC.
- Flash 2x 512MB.
- RAM 256 MB on board.
- Power supply 7.2V 2600mAh Li-ION battery or power battery 5200 mAh.
- Housing dimensions: (LxWxD) 137 x 85x 28 mm incl. battery, weight 160 g. without battery, total weight 265 gr. incl. standard battery.
- Dimensions standard battery: 85 x 47 x 22 mm / weight 105 g.
- Dimensions power battery: 85 x 87 x 22 mm / weight 105 g.
- Extensive accessories optionally available.





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