

Dap Microflex CE3240B

- Fully Rugged PDA -

CE3240B

Rugged PDA

The Dap MICROFLEX CE3240B mobile personal computer is the latest fully rugged solution from Steatite. The MICROFLEX CE3240B was specifically designed to transfer DAP's mobile computing expertise into the featherweight field of handhelds. Meeting all expectations, it also offers the largest variety of customisation hardware modules and features the most efficient, safe and cost effective tools for all field workers.

By pushing greater quantities of data to field operatives, reducing or eliminating paper forms and improving data security, you can increase your productivity and reduce your costs. By streamlining your procedures, reducing management time and improving data reliability, DAP Technologies' MICROFLEX CE3240B mobile personal computer from Steatite will enhance your performance in the field.

Catering for a vast range of rugged mobile applications, the MICROFLEX CE3240B offers such expanded capabilities as 1D/2D Barcode Scanner, Smart Card Reader and Fingerprint Sensor. For vehicle based applications a versatile Vehicle Cradle allows you to recharge and communicate via RS232 ports.



Pushing greater quantities of data to field operatives, reducing or eliminating paper forms and improving data security, are all methods used to increase productivity and reduce costs. By streamlining your procedures, reducing management time and improving data reliability, DAP Technologies' Microflex computers will enhance your performance in the field.

The Microflex 3240 has been specifically designed to bring the most from DAP's mobile computing expertise into the featherweight champ of handhelds. Meeting all expectations, it further offers the largest variety of customization hardware modules to feature the most efficient, safe and cost-effective tool for all field co-workers.



The Microflex CE3240 offers a QVGA TFT transfective colour display with LED backlight, thus making it easy to read both indoors and outdoors. This PDA also offers the extra security offered by Windows CE 5.0, a low total cost of ownership as well as being wireless enabled.

Technical Features

The Microflex CE3240 and 3240B represent DAP Technologies' primary offering to field operatives seeking to eliminate paperwork and reduce costs while increasing security and productivity. The 3240 family merges PDA and handheld terminal functionality in one compact, lightweight device that offers superb customization possibilities via hardware modules as well as a PC Card slot and two integrated SDIO slots.

Among wireless options are HPRS, CDMA 1xRTT, WiFi, and Bluetooth. Customers can also specify GPS, 1D/2D barcode readers, or RFID. The 3240 is also built to withstand harsh environmental conditions, including a 6.5-foot drop spec, very wide operating temperature range, and an IP65 rating (IP67 optionally available as well). The ergonomic 22-key keypad allows for rapid data entry and can be ordered with backlighting.

Specifications

- Operating system: Windows CE 5.0
- Processor: Intel XScale – PXA270, 520 Mhz
- Memory: 128 MB NAND Flash, 64 MB RAM Display: 3.5" QVGA TFT transfective colour LCD with LED backlighting
- Weight: 443 g

Benefits

- Wireless enabled
- Extra security provided by Windows CE 5.0
- Lightweight
- Improved data security
- Rapid return on investment
- Low total cost of ownership

The CE3240B is built for use in all environments. It will survive being dropped, being subject to vibration, being used in below freezing conditions or desert heat, making it the ideal work tool for industry type applications within the following markets and many more:

- UTILITIES,
- TRANSPORTATION
- LOGISTICS,
- INVENTORY CONTROL,
- PUBLIC SAFETY.

Vehicle Cradle

The CE3240B vehicle cradle allows you to recharge and communicate via RS232 ports. It can be easily installed on the dashboard, seat or floor, and is fully adjustable to allow for multiple mounting options.

ELECTRICAL

Powered by vehicle battery
Both 12VDC and 24VDC
(actually between 9VDC and 32VDC)
Recharges mobile unit (CE3240B)

MECHANICAL

Strong mechanism
to retain unit in cradle
Simple, easy-to-use release button
Arm mountable

COMMUNICATION PORTS

3 ADDITIONAL COMPLETE SERIAL PORTS (RS-232 LEVEL)
Rx, Tx, DSR/DTR, CTS/RTS, DCD and RI
Fully transparent and integrated in Windows CE
Each port appears as a standard com port through Win CE
drivers
Up to 115.2 Kbauds
Uses standard DB9 connectors

ENVIRONMENTAL RESISTANCE

Passed vibration testing
as per MIL-STD-810F Standards

APPROVALS

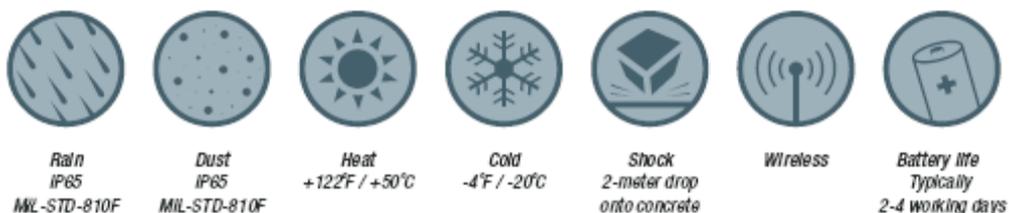
E24 certifications
(European vehicle certification)
Designed to meet SAE requirements



| | |
|--------------------------|---|
| Electrical | <ul style="list-style-type: none"> Powered by vehicle battery Both 12VDC and 24VDC (actually between 9VDC and 32V) Recharges mobile unit (CE3240) |
| Mechanical | <ul style="list-style-type: none"> Strong mechanism to retain unit in cradle Simple, easy to use release button Arm mountable |
| Communication ports | <ul style="list-style-type: none"> 1 true serial port, RS-232 levels Rx, Tx, DSR and DTR Up to 155 Kbauds Uses standard DB9 connector 2 additional complete serial ports from mobile unit's Ethernet port 1 RS-s3s levels Rx, Tx, DSR/DTR, CTS/RTS, DCD and RI Fully transparent and integrated in Windows CE Each port appears as a standard com port through Win CE drivers Up to 155 Kbauds Uses standard DB9 connectors |
| Environmental Resistance | <ul style="list-style-type: none"> Passed vibration testing as per MIL-STD-810F |
| Approvals | <ul style="list-style-type: none"> E24 certifications (European vehicle certification) Designed to meet SAE requirements |

Technical Specifications

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|--|
| Operating System: Windows CE 5.0 |
| Processor: Intel XScale (Bulverde) - PXA270, 520 MHz |
| Memory: <ul style="list-style-type: none">■ 128 MB Storage Flash■ 128 MB SRAM |
| Display: <ul style="list-style-type: none">■ 3,5" QVGA TFT transfective color LCD with LED backlighting |
| Keyboard: <ul style="list-style-type: none">■ Highly ergonomic 22-key keypad with 10 numeric and function keys plus 2 trigger keys |
| Connectivity - CE3240B WIRELESS EDITION <ul style="list-style-type: none">■ Internal Bluetooth Class 2■ Internal 802.11 b/g |
| Connectivity - CE3240B ETHERNET EDITION <ul style="list-style-type: none">■ Ethernet 10BaseT, 10Mbps through cradle |
| Power: <ul style="list-style-type: none">■ Rechargeable 2000 mAh Lithium-Ion battery pack■ Battery Life: 2 to 4 working days |
| Adaptable End-Caps: <ul style="list-style-type: none">■ Smart Card Reader: Contact & Contactless<ul style="list-style-type: none">■ High Resolution Fingerprint Sensor■ 1D/2D Barcode Reader (CMOS Imager)■ Optional Integrated Image Scanner (2D Codes, Linear, Postal Modules, OCR Fonts) |
| PC Card and SDIO: <ul style="list-style-type: none">■ 1 PC Card Type II (CF Card via Adapter)■ 1 Secure Digital (SD or SDIO) slot |
| Communications I/O: <ul style="list-style-type: none">■ Ethernet 10BaseT, 10Mbps plus USB host and slave through cradle |
| Environmental Resistance: <ul style="list-style-type: none">■ Operating: -4°F to +122°F<ul style="list-style-type: none">■ MIL-STD-810F■ IP65 |



| | |
|---------------------------|--|
| Processor | 400MHz PXA255 Intel Xscale processor |
| Memory | 128MB NAND Flash – for WIN CE and file system; 64MB RAM; Additional storage via PCMCIA Flash cards or SD cards |
| Display | 3.5" QVGA TFT transfective colour LCD with LED backlighting |
| Keypad | Highly ergonomic 22 key keypad with 10 numeric and function keys plus 2 trigger keys; Tactile and programmable audible feedback; Programmable auto-repeat; Optional keyboard backlighting; customized keyboard template |
| PCMCIA | 1 Type II PCMCIA slot user accessible through an environmentally sealed cover; 2 SD slots available through an environmentally sealed cover with SDIO functionality; Hot swappable; 3.3V and 5V card support; ATA, Modem, 802.11b WLAN support; WWAN compatibility |
| Audio System | Integrated Microphone and Speaker output and headset jack |
| Integrated Communications | Ethernet 10BaseT, 10Mbps plus USB host and slave through cradle |
| Operating System | Microsoft CE.5.0 |

ENVIRONMENTAL (EN60529/MIL-STD-810F)

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|----------------------|--|
| Temperature | Operating temperature -20°C to + 50°C (-4°F-122°F) |
| | Storage Temperature -30°C to + 60°C (-22°F-140°F) |
| Rain/Water | Ingress Protection rating of IP-65 for dust and water intrusion; IP67 optional |
| Drop | Meets and exceeds CEI 68-2-32 method 1 (2 meter drop onto concrete); MIL-STD810F |
| Regulatory Approvals | MIL-STD-810F method 516.4 procedure 4 |
| | Electrostatic Discharge: Meets EN61000-4-2 |

PHYSICAL

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|------------|---|
| Dimensions | 7.7" (19.6 cm) x 3.1" (7.9 cm) x 2.05" (5.2 cm) |
| Weight | 1.0 lbs (454g) including battery |

ELECTRICAL

| | |
|---------|---|
| Battery | Lithium Ion rechargeable pack |
| | Intelligent fast charge, Power Management System, Integrated charge status and low battery indicator, Typically 2 to 4 working days battery life, Backup system for RAM memory if main battery is exhausted or removed, ON/OFF switch, manual and automatic shutoff, Power gauge to monitor main battery, 5 volt power for external devices, Typically 2 days of operating time |

OPTIONS

| | |
|-------------------|---|
| Image Scanner | Reads: 2D Codes, Linear, Various postal modules, OCR Fonts; OCR-A and OCR-B |
| GPS | 12 channel WAAS enable GPS with integrated antenna |
| Docking Solutions | Various communications and charging cradles available (office or vehicle) |
| RFID Reader | Low or High Frequency, high frequency using PCMCIA card |
| Extended End Cap | Customer specific electronic modules available |
| Carrying Case | Ergonomic hand strap adjustable for either left or right handed users |

Front View



Ambient Light Sensor – Automatically shuts off the backlight when there is sufficient ambient light to view the screen.

Microphone – Integrated microphone for voice capture.

Touch Screen – Backlit QVGA TFT transfective LCD (240 x 320) readable indoors and outdoors. Covered by a highly-rugged touch membrane for direct entry on screen.

Keypad – Highly ergonomic 22-key keypad with 10 function keys

Battery Indicator – Indicator turns red when in charge mode.

Trigger Buttons – Conveniently located on both sides of the unit to accommodate left or right hand users. Provides an alternative ergonomic data entry method.

On-screen Keyboard – Available on touch screen. Can be called by application software or by selecting the keyboard icon in the bottom right hand corner of the screen.

Operating System, Processor & Memory – Windows CE .Net 5. Intel Xscale (Bulverde) PXA270@520MHz. 128MB of storage flash and 64MB SRAM.

Rear View



Stylus Compartment – Convenient storage of the stylus.

Hand Strap - Durable, extensible and adjustable in length, this strap can be installed on the underside of the unit for improved grip.

Speaker - Integrated and environmentally sealed speaker to allow for audio feedback from your application.

Battery Pack – Rechargeable 2200mAh Lithium-Ion battery pack.

Top View



Headset Connector – Standard cellular phone headset can be used to listen to pre-recorded messages in a noisy environment, or to record high quality audio.

Cradle Connector – Docking connector allows you to connect the unit to your corporate network for synchronisation purposes. Cradles are available for the office or vehicle mounting.