

mitePC-LP „Low Profile“ Embedded Computer



As an illustration

Manual

1 Introduction

1.1 Document

While we have made every attempt to ensure all information in this document accurate, the information contained is supplied „as-is“ and is subject to change without notice

1.2 Warranty

This MITE Hradec Kralove, Ltd. Product is warranted against defects in material and workmanship for warranty period from the date of shipment. Within warranty period, the repair of products is free of charge as long as warranty conditions are observed.

1.3 Technical Support

Before contacting MITE Hradec Kralove, Ltd. Technical support, please consult our Web site at www.mite.cz, for latest product documentation, utilities, drivers and application notes. If the information does not help solve the problem contact us by mail support@mite.cz.

MITE Hradec Kralove, Ltd.

Veveřkova 1343
500 02 Hradec Kralove
Czech Republic

tel. +420 498 500 252
fax +420 498 500 260
www.mite.cz
mite@mite.cz

MITE Kosice, Ltd.

Nerudova 14
040 11 Kosice
Slovakia

tel. +421 910 902 532
tel./fax+421-(0)556250677
www.mite.sk
mite@mite.sk

2 Computer description

Embedded computer mitePC-LP Construction is pragmatically made to a metal housing that also serves as a cooler.

2.1 Main parts

- Metal housing within:
 - standard connectors at front panel
 - power supply connector
- External power supply
- Memory Card within operating system

2.2 Basic versions

	mitePC-LP-C	mitePC-LP-C2	mitePC-LP-CH	mitePC-LP-H
CPU	LX800(500MHz)	LX800(500MHz)	LX800(500MHz)	LX800(500MHz)
Chipset	CS5536	CS5536	CS5536	CS5536
RAM	512 MB	512 MB	512 MB	512 MB
CF	CF1	CF1	CF1	-
CF/HDD	-	CF2	HDD 40 GB	HDD 40 GB

2.3 mitePC-LP Benefits

All the mitePC Embedded computers include common personal computer (PC) peripheral function such as Graphics, Parallel, Serial, USB, Keyboard/mouse, Ethernet, Sound, IDE.

The mitePC-LP computer brings very robust, low-profile and low-power consumption features.

Technical features of all integrated parts, for example CF, HDD etc. are described in technical documents of their own.

The delivered mitePC-LP Embedded computer specification can be found in delivery note. It does not need to have all here described parts and on other side it can be extended in line of customer requirements.

3 Connectors

3.1 Front panel

There are standard connectors for:

- USB
- Ethernet
- COM
- PS/2
- CRT (RGB)
- Audio In - MIC
- Audio Out
- CF Card
- Push button ON/OFF
- Power Supply Jack

From left side there are

Interface	Connector/Description
USB1	Type A for USB 2.0 OHCI/EHCI
USB2	Type A for USB 2.0 OHCI/EHCI
	Span between USB 1 and USB 2 is 13 mm
PS/2	MiniDIN, PS/2 Keyboard/Mouse combined, use Y cable
Audio In	Jack 3.5 mm, MIC
Audio Out	Jack 3.5 mm, Line In
USB3	Type A for USB 2.0 OHCI/EHCI
USB4	Type A for USB 2.0 OHCI/EHCI
	Span between USB 3 and USB 4 is 9 mm
VGA	Canon DB15, up to 1600 x 1200
COM1	Canon DB9
Ethernet	RJ45, 10/100 Mb/s
Power	Jack

3.2 *Internal connectors*

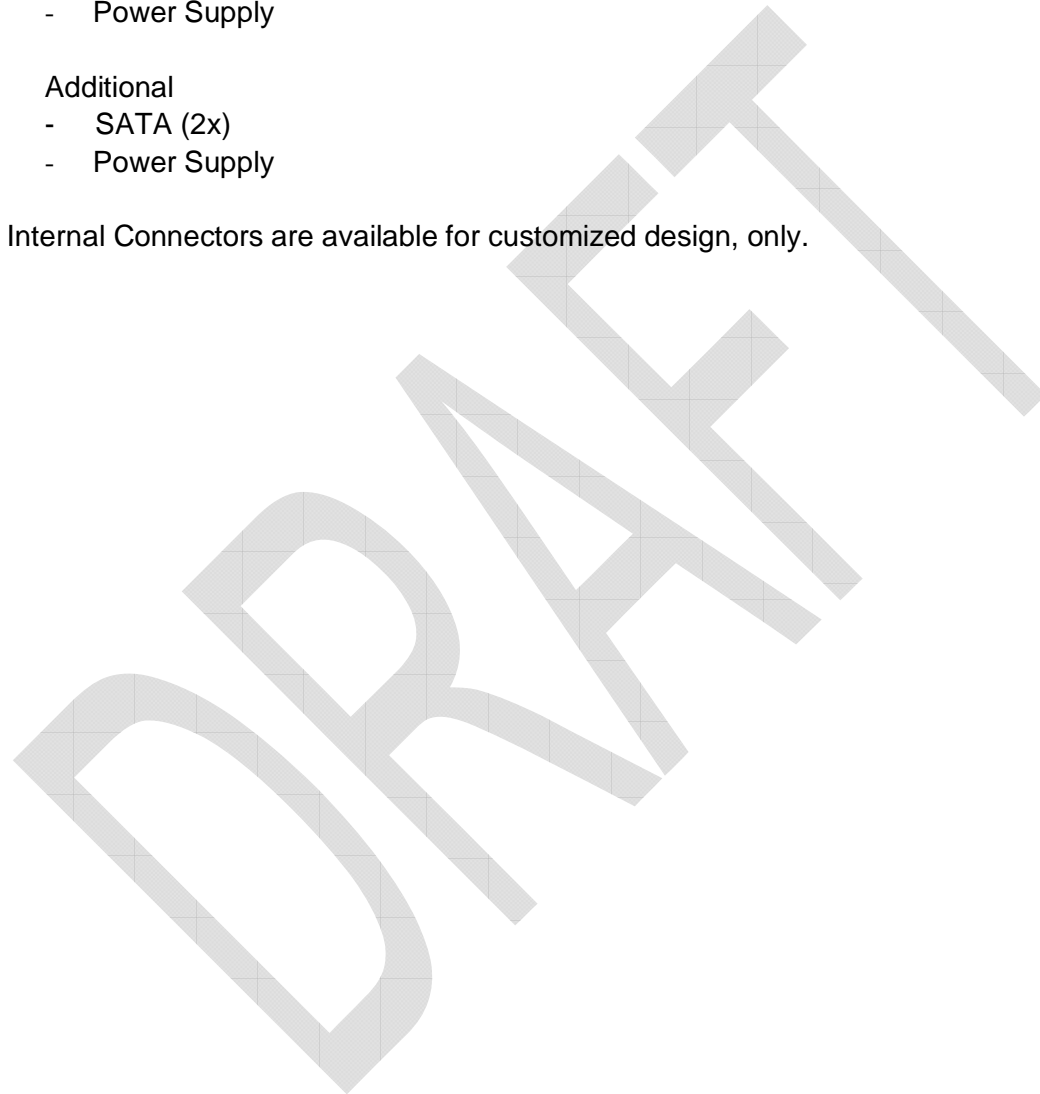
There are other connectors inside:

- Place for alternative connectors to front panel ones
- LCD Display
- COM2 Port
- LPT Port
- Power Supply

Additional

- SATA (2x)
- Power Supply

Internal Connectors are available for customized design, only.



4 Operating system

Some Embedded Operating systems like Windows XE Embedded, Windows CE, Windows Embedded for Point of Service (WEPOS), Windows Server, LINUX and other are available for mitePC-LP Embedded computer.

The significant advantage of mitePC-LP Embedded computer is FREE TRIAL version of Embedded Operating system that allows you to test your Application without any additional costs. You can find TRIAL version at www.mite.cz

4.1 Windows XP Embedded

There are basic „embedded“ features added in:

4.1.1 Enhanced Write Filter (EWF)

Enhanced Write Filter (EWF) provides the ability to write-protect a run-time image. Default settings of EWF allow the temporary placing of data to an Overlay. After you switch OFF the mitePC-LP Embedded computer all data are lost.

To save data to Flash memory you must use command
ewfmgr c: -commit

4.1.2 Computer Name and Workgroup Name

The unique Computer Name is created during FBA and has form MITE-xxxxx, where xxxxx are groups of characters. Workgroup Name is MITE.

4.1.3 Automatic logon

The *Administrator* logging is automatically with password MITE. The same ID and PASSW is used by Remote Desktop, if included.

4.2 Windows CE

There are basic features added in:

4.2.1 TBD

TBD



Warning:

There is no technical support to any TRIAL version of Operating system.

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5 Electrical Specification

Supply Voltage: 8 – 24 V DC.

Supply Voltage is indicated by yellow LED.

Input Power Supply Connector Polarity: „+“ (plus) plug pin
„-“ (minus) outside of jack

External Power Supply 90 – 264 V AC, 47 – 63 Hz is included.

Power consumption of mitePC-LP (without any save modes) with RAM 512 MB and CF Card 512 MB is typ. 2 A @ 12 V DC.

Notice:

Embedded computer switch ON/OFF is allowed by a keyboard connected to USB if supported in Operating system.



Warning:

In case you use another Power Supply be very careful. Wrong Voltage Level or Voltage Polarity can damage of mitePC-LP Embedded computer.

6 Options

The mitePC-LP Embedded computer Specification can be extended with some options:

Option	Description/Remark
CF1	CF Card 1 GB is Standard, „any capacity“ allowed
CF2	CF Card 1 GB is Standard, „any capacity“ allowed
HDD	Seagate Momentus 5400, 40 GB (or compatible)
USB Memory	USB Memory for Operating system Boot
BAT1	Battery pack, portable modification
BAT2	Battery pack, portable modification

7 Assembly



Warning:

There are ESD (Electrostatic Discharge) sensitive parts in mitePC-LP Embedded computer, follow conventions.

7.1 Mechanical Specifications

	mitePC-LP-C		
Dimension [mm] (w x h x d)	210 x 183 x 24		
Weight [kg]	~ 0,5		

7.2 *Front View Connectors*

TBD

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8 Environmental Specification

8.1 Temperature

Operating: 0°C to 50°C

Non operating: -40°C to 85°C (w/o HDD)



Warning:

By locality of mitePC-LP Embedded computer is necessary to allow sufficient air flow.

8.2 Humidity

Operating: 10% to 90% (non condensing)

Non operating: 5% to 95% (non condensing, w/o HDD)

9 Revision History

Revision	Date	Edited by	Changes
0.03	12.3.2007	VP	Initial Release – DRAFT

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