MK306 Box PC

Features

MK306 includes:

- ■ KIB386-01 interface module
- ■ CPC306-01 processor module
- ■ VIM301-01 graphics controller module
- ■ PS351-01 power supply module

Overview

The computer is based on CPC306 processor module, VIM301 graphics controller and PS351 power supply module.

CPC306 does not use forced cooling and does not have moving parts.

One of the features of MK306 is availability of analog and discrete input/output channels realized on CPC306 processor module. Eight isolated analog input channels, two isolated analog output channels, and 3Ч24 discrete input/output lines compatible with Fastwel UNIO96-5 module are supported.

Connections are made via standard front panel connectors; this makes it easy to use MK306 as a platform for development of software and systems based on CPC306.

MK306 has mounting platform for mounting on a horizontal surface and rear bracket for mounting on vertical surfaces.

Technical Specifications

Interfaces
- Serial ports:
  COM1, COM2: RS422/485, hardware flow control, channel-by-channel isolation not less than 500V
  COM4: RS232, full modem, up to 115.2 Kbaud
- 4×USB 2.0
- 2x Ethernet 10/100 Mbps
- LPT parallel port
- PS/2 keyboard/mouse
- Support for VGA analog displays with resolutions 640×480, 800×600, 1024×768, 1280×1024
- Analog input/output port:
  8 analog input channels; 12-bit ADC conversion time: 12.5 ms/channel (80 kHz)
  Single-wire and double-wire current/voltage measurement modes
  2 analog output channels; 12-bit DAC; conversion time: 10 ms/channel (100 kHz)
  Isolation from system: 500 V
- Universal discrete input/output port:
  72 channels; signal level: +5 V (TTL)
  Switching load: from 12 to 4 mA

Software support
- FREEDOS
- Windows CE 5.0
- Linux 2.6
- QNX 6.4

Optional Expansion Modules
- GPS/GLONASS receiver
- Quad-band GSM GPRS/EDGE wireless communication module
- 2 sockets for SIM cards
- Up to five additional PC/104+ expansion boards

Mechanical
- Dimensions: (Width×Hight×Depth) 170×160×100 mm

Power supply
- Voltage: 10–36 VDC; consumption: 30 W

Environmental conditions
- Operating temperature range: –40°C to +70°C
- Storage temperature range: –55°C to +90°C
- IP65 dust and moisture protection
- Single/multiple shock resistance: up to 100G/50G
- Vibration: up to 10G

List of deliverables
- MK307 assembled:
  Housing
  CPC307-04 module
  CNM350-01 module*
  VIM301-01 module
  Power adapter
  PS351-01 power supply module
- CD with documentation
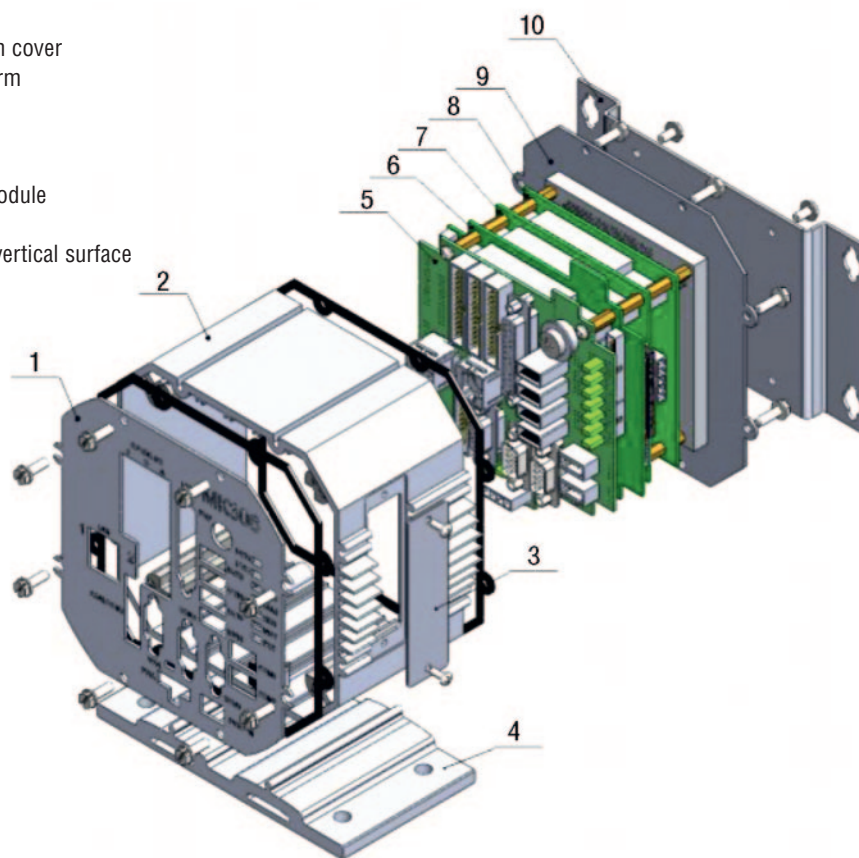- Accessories for optional expansion modules

Warranty
- 3 years for parts and labor

* for MK307-02 only

MK306 Box PC

Design Details

1. Front panel
2. Enclosure
3. CompactFlash access hatch cover
4. Horizontal mounting platform
5. KIB386-01 module
6. CPC306-01 module
7. VIM301-01 module
8. PS351-01 power supply module
9. Rear panel
10. Bracket for mounting on vertical surface

Ordering Information

MK306 Configuration

MK306-01\Options

Configuration

MK306-01	CPC306-01, VIM301-01, PS351-01, KIB586-01
MK306-02	CPC306-01, PS351-01, KIB586-01

Example

MK306-01\PS220
Box PC including KIB386-01, CPC306-01 and PS351-01 modules;
220 V AC power supply module

MK306 Available Options

Extension modules	
\PS220	220 V AC power supply module

Other configurations and options are available upon request.

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READY FOR

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EMBEDDED-PC

CE

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