





**Overview** 

particular usage.

ments.

SIM cards.

Fastwel MK307 is a platform for modular

computer designed to serve industrial,

transport, governmental and other applica-

tions where environment is severe. Due to

the modular design, Fastwel MK307 offers

flexibility in its configuration to achieve

optimum price/performance ratio for every

Fastwel MK307 is based on stackable

Up to five PC/104-Plus electronic modules

can be placed inside the rugged aluminum

alloy housing. All connectors are located on

the front panel providing easy access and

allowing installation into blind compart-

Fastwel MK307 features the IP65 dust and

moisture protection of the housing and

external cable connectors and can be supp-

lied with a cradle for easy mounting. The

side lid provides easy access to MicroSD and

Fastwel MK307 is based on CPC307

PC/104-Plus host CPU module, power

supply module with wide input voltage range

(from 10 to 36 V DC through rugged con-

nector on the front panel) and may include

additional video-controller, field bus, com-

munication and navigation modules. The

front-panel connectors provide access to

standard computer interfaces, such as five COM ports, Fast Ethernet, two USB 2.0,

PS/2, VGA, LVDS, two CAN ports. Four additional front-panel 18-contact connectors

can be used for interfacing with customer's application-specific expansion modules.

modular concept and standards promoted by

PC/104 consortium (www.pc104.org).

### **Features**

- IP65 modular industrial computer
- Housing up to five PC/104 modules
- Four 18-pin rugged connectors on front panel for expansion modules signal input-output
- Industrial operating temperature range: –40°C to +70°C
- Basic hardware configuration of MK307: CPC307-04 CPU board VIM301 graphics controller board PS351-01 power supply module

# **Technical Specifications**

## **Interfaces**

- VGA, LVDS, LCD up to 1280×1024, EL up to 640×480
- LAN: 10/100 Mb/s Base-T
- USB: 2 ports, 2.0 support
- PS/2: keyboard and mouse port
- Two isolated CAN 2.0
- · Serial ports:

COM1: RS232/RS485/RS422, without opto isolation, up to 460,8 Kb/s; COM2: RS232/RS485/RS422, without opto isolation, up to 460,8 Kb/s;

COM3: RS232, full control,

up to 115.2 Kb/s;

COM4: RS232, full control, up to 115.2 Kb/s;

COM5: RS422/RS485, optoisolated,

up to 3000 Kb/s;

COM6: RS422/RS485, optoisolated, up to 3000 Kb/s;

- Power supply socket, 10-36 VDS
- · Sockets for connection of two Micro-SD cards

## **Software support**

- FREEDOS
- Windows® XPe. CE 5
- 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 three additional PC/104+ expansion boards

## Mechanical

• Dimensions: 216×153×142 mm  $(8.5"\times6.0"\times5.6")$ 

# **Power supply**

• 10-36 V DC

# **Environmental conditions**

- Operating temperature range: -40°C to +70°C
- · Non-operating 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

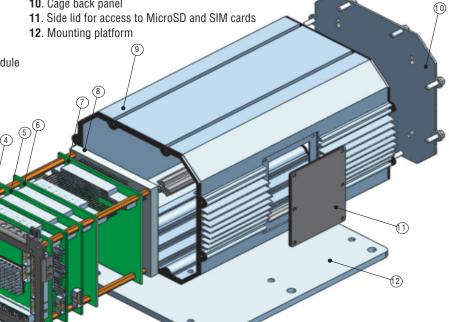
• 3 years for parts and labor



<sup>\*</sup> for MK307-01 only

# **Design Details**

- 1. Front panel with connectors
- 2. Mounting frame
- 3. CPC30704 module
- 4. CNM35001 module 5. VIM30101 module
- 6. Power adapter
- 7. PS35101 power supply module
- 8. Power supply radiator
- 9. Cage
- 10. Cage back panel



# **Ordering Information**

# **MK307 Configuration**

# MK307-01

**Device Type** 

MK307-01 CPC307-04, VIM301-01, PS351-01, CNM350-01

MK307-02 CPC307-04, VIM301-01, PS351-01

**Example** 

MK307-01

CPC307-04, VIM301-01, PS351-01, CNM350-01

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Product specifications are subject to change without notice

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