MK300
PC platform for modules in Stack PC form-factor

Features

- Interfaces:
  VGA, 4×USB, 1×GbE, 4×GbE with PoE, 2×CAN, 2×RS-422
- Power: Maximum power consumption 35 W
- Compatibility with OS: FreeDOS, Windows XPe, Linux 2.6., Astra Linux 1.3, QNX v.6.5
- Protection class: QNX v.6.5
- Operating temperature range: from –40°C to +70°C
- Weight: 7.3 kg
- Dimensions: 303 mm×163 mm×153 mm
- MTBF: 35 000 hours

Overview

Basic PC platform for stack modules in StackPC and PC/104 form-factors with conduction heat removal to the enclosure.

Possibility of heat removal to the enclosure from any module.

The enclosure enables to install up to seven expansion modules.

As the Box PC platform, MK300 could be equipped with different types of expansion modules provided by Fastwel and other manufacturers (list of peripheral modules can be found at: www.fastwel.com).

There is an option to replace the types, number and location of the connectors on the front panel with the required ones.

Additional interfaces can be routed to the auxiliary connector of the front panel.

Technical Specifications

Standard interfaces/signals of the front panel
- VGA
- 4×USB
- 1×GbE, galvanic isolation 500 V
- 4×GbE with PoE, galvanic isolation 500 V
- 2×CAN, galvanic isolation 500 V
- 2×RS-422, galvanic isolation 500 V
- Wi-Fi
- GPS/GLONASS

Power, galvanic isolation 500 V
- 10,5…36 V
- Maximum power consumption 35 W
- Control of power supply mode's operation (RS-485)

Indication Power, Activity IDE/SATA, as well as two use LEDs (control via 0, 1 lines of GPIO port of CPC309 CPU module)

Weight and dimensions
- Dimensions: 303 mm x 163 mm x 153 mm
- Weight: 7.3 kg

Compatibility with OS
- FreeDOS
- Windows XPe
- Linux 2.6
- Astra Linux 1.3
- QNX v.6.5

Protection class
- IP65

Operating temperature range
- From –40°C to +70°C

MTBF
- 35 000 hours

Vibration resistance
- 5g

Resistance to single shocks
- 100g

Resistance to multiple shocks
- 50g

MK300
PC platform for modules in Stack PC form-factor

Ordering Information

MK300 Configuration

MK300 - 01

Configurations

MK300-01   VGA, 4×USB, 1×GbE, 4×PoE GbE, 2×CAN, 2×RS-422, GPS/GLONASS, WiFi, 4GB NAND, 10,5…36 V DC

MK300-01\T001 VGA, 4×USB, 1×GbE, 4×PoE GbE, 2×CAN, 2×RS-422, GPS/GLONASS, WiFi, 4GB NAND, 32GB CFAST, 10,5…36 V DC

Options

\WXPe
• pre-isntalled OS Windows XPe

Delivery Checklist

1. MK300-01 Box PC
2. Package

Additional Accessories (supplied by a separate order)

ACS20058
• GSM/GPS/GLONASS antenna
• Set of cable parts connectors

Possible Modifications

\AL
• Pre-installed OS Astra-Linux 1.3, on request

CompactFlash-drive
• Pre-installed drive with the volume up to 16 GB, on request

CFAST-drive
• Pre-installed drive with the volume up to 32 GB, on request

Functionality exclusions:
• Wi-Fi, GPS/GLONASS, CAN, RS422, 4xGbE PoE

Additional functionalities:
• Availability of the auxiliary DIO connector (21 contacts), where additional interfaces can be routed: LVDS, PS/2, Audio or interfaces from additional expansion modules.
• Availability to replace the types, locations and number of interface connectors on the front panel.

Corporate Offices

FASTWEL GROUP Co, Ltd

108 Profsoyuznaya str.
Moscow, Russia 117437
Tel: +7 (495) 232-1681
Fax: +7 (495) 232-1654
E-mail: info@fastwel.com
Web: www.fastwel.com

FASTWEL Corporation US

Fastwel Corporation US
6108 Avenida Encinas,
Suite B, Carlsbad,
CA 92011.
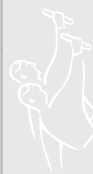Phone: 858-488-3663
E-mail: info@fastwel.com

ISO 9001:2008
EC.C.O.02.01.000823-12

READY FOR
RoHS