

For IoT-, Cloud- and M2M-Applications, Longterm-Available

- Embedded computer particularly suitable for IoT Gateway and for cloud applications
- Fully RPi software compatible, freely programmable and configurable
- Cortex QuadCore 1.2 GHz, 1 GB RAM, 4 GB eMMC
- Available with 4G / LTE and 3G / UMTS
- WiFi and Bluetooth integrated (option)
- Up to 2 x CAN 2.0A / 2.0B interfaces
- 1 x 10/100 Base-T Ethernet Port
- 3 x USB host 480Mbps high speed ports
- 1 x RS485 / 422 or RS232 port
- RS232 console
- Digital In and Out, I2C and 1-Wire Interface
- Low power consumption, fanless
- Small and compact design
- Extended operating temperature available

* Interface set is modeldependent



The industrial-grade Embedded Computer IWT-600 is a fanless, fully RPi software-compatible computer designed specifically for IoT, M2M and cloud communications applications. The IWT-600 Embedded Computer is designed for 24/7 operation. An extensive set of industrial interfaces is available for easy on-site coupling. The Internet connection is either via the LAN interface or wirelessly via a fast, integrated LTE / 4G or alternatively 3G / UMTS interface. A ready-to-use pppd system provides a fast and easy wireless connection to the Internet. This means that live data from plants, machines, devices and vehicles is available worldwide without delay. Optionally, an integrated GPS function e.g. also ready for a high-precision time evaluation.

Reliable 24/7 operation in industrial use

The IWT-600 IoT Gateway Computer is specifically designed for reliable operation in the industrial environment. A hardware watchdog allows the hedge against software errors, a software-controlled restart is also possible. The LTE / 4G / 3G module can be completely reset using a software interface. The USB interfaces can each be switched separately and so the USB units are reset by software. The robust SIM card holder is externally accessible.

Rich set of industrial standard interfaces

The IWT-600 computer is available in several product variants to ensure a tailor-made connection to the respective application. Up to 2 CAN ports support CAN standards 2.0A and 2.0B. Easy access to the ports is ensured by standardized software interfaces such as SocketCAN, J1939 and CANopen. In addition, RS485, RS422, RS232, One-Wire, I2C, USB as well as digital inputs and outputs are available for flexible on-site connection.

Flexible Linux Platform

The IWT-600 Embedded Computer supports the standard Raspbian Lite operating system. Extensive available software and documentation ensure fast implementation of applications. All interfaces, such as the CAN bus and the serial interfaces, as well as the digital inputs and outputs are controlled via standard APIs. Ready-to-run programming examples ensure quick and easy software implementation. The IWT-600 comes ready to go with pre-installed operating system. Productive systems with specific customer setup for just-in-time productions save time and money during commissioning.

	IWT-600 CAN	IWT-600 RS485	IWT-600 PRO	IWT-600 FLEX
Processor	ARM Cortex QuadCore up to 1,2GHz			
Main Memory	1GB DDR			
Onboard-Flash	4 GB eMMC Flash			
Massstorage external	USB nano Stick			
Linux Operating system	Support for Raspbian Lite (Headless) Linux system preinstalled, the Linux system is freely configurable and programmable			
LTE/4G/UMTS/2G	Dual-Band TDD-LTE B38/B40, Five-Band FDD-LTE B1/B3/B7/B8/B20, Dual-Band UMTS/HSDPA/HSPA+ B1/B8, Dual-Band GSM/GPRS/EDGE 900/1800 MHz Powercontrol and Reset can be controlled by software			
Alternatively 3G/HSPA/UMTS	3G, HSPA 14.4 Mbps downlink, 5.7 Mbps uplink, 3G five band, EDGE class 12, GPRS class 12, 2G quad band Powercontrol and Reset can be controlled by Software			
4G/3G antenna connector	SMA female connector, Optional: auxiliary antenna connector			
CAN-Bus, 2.0A/2.0B	2	-	1	0/1/2
Network	1 x 10/100 BaseT Ethernet Interface			
USB Host	3 x USB host 2.0 high speed 480MBit/s The supply of the USB host interfaces can be switched by software So a connected USB device can be completely restarted without user intervention			
RS232/RS485	RS232	RS485	RS485	RS323 oder RS485
RS232 Systeminterface	1 x RS232 for Terminaloperation			
Digital Inputs	-	-	4 digital, isolated Inputs, wet contact, optional dry contact	0/4 digital, isolated Inputs, wet contact, optional dry contact
Digital Outputs	-	-	4 Highsideswitch Outputs	0/4Highsideswitch Outputs
RTC	Batterybuffered RTC			
WiFi / Bluetooth integrated (Option)	WLAN / WiFi 802b/g/n Bluetooth 4.0 with SMA Antenna connector, combined antenna for WiFi and Bluetooth			
1-Wire	-	-	1	0/1
I2C Port	-	-	-	0/1
Status LEDs	1 x Power On, 1 x microSD Zugriff, 4 user programmable LED's LTE/4G/UMTS/2G Status, 1 LTE/4G/UMTS/2G User programmable			
Hardware Watchdog	Hardware watchdog for automatic restart Can be combined with Linux Watchdog			
ActionButton	Hidden button for starting a user-specific program or script			
Powersupply	Wide range DC input 9..40 / 34 Volt with reverse polarity protection, jack socket, optional industrial plug			
Powercontrol	-	-	yes	no/yes
Temperature	Storage: -40°C..+85°C, Standard operating: 0°C..+60°C non condensing Extended Temperature Version operating available			
Case	Stable, shapely plastic housing, dimensions: approx. 150 x 100 x 30 mm			
Mounting options	Wall mount			