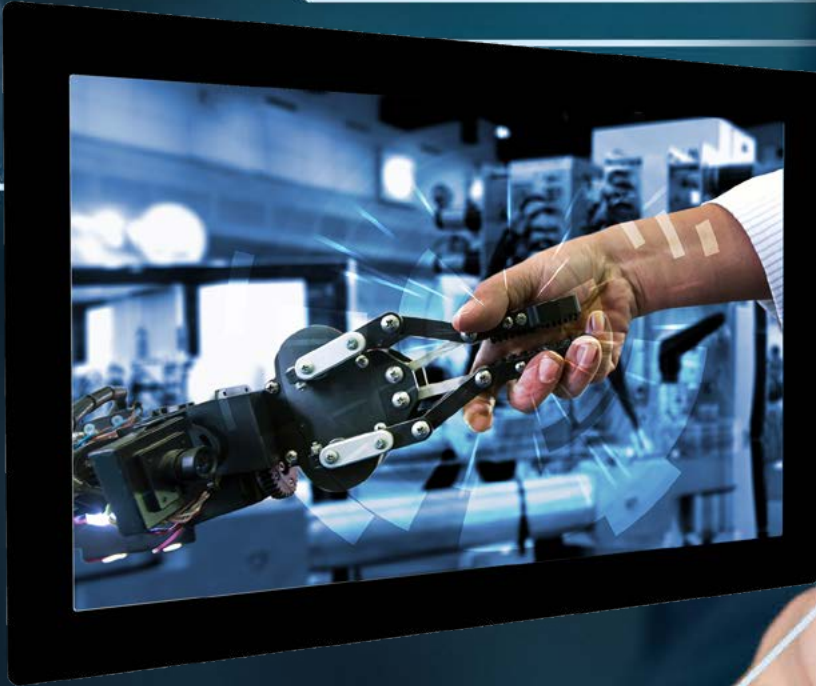




IOT

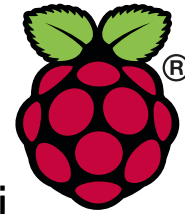


Artista-IoT

Raspberry Pi based TFT Controller

Artista-IoT

Smart TFT-Controller based on Raspberry Pi



The Distec GmbH adds a new member to the proven Artista family: a unique control solution for all applications that require both reliability and long-term availability. This new TFT controller is a Base Board with a base for the latest generation of the Raspberry Pi Compute Module (CM3) and thus is not only a simple TFT controller but the perfect basis for both cost-efficient and powerful IoT and Industry 4.0 applications.

The Artista-IoT allows the direct connection of almost all common TFT types without additional hardware and supports modern PCAP multi-touches.

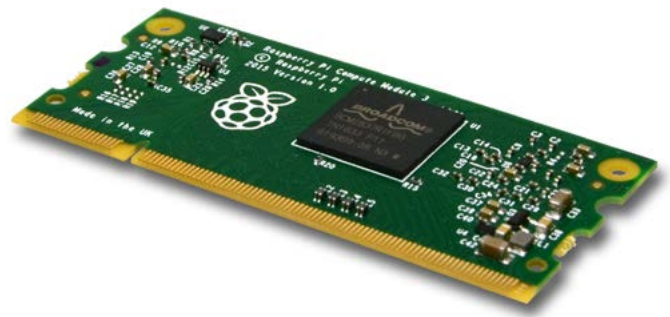


Artista-IoT BaseBoard

Raspberry Pi – Compute Module 3 (CM3)

The Compute module is a full-fledged Raspberry Pi 3 in a form factor specifically designed for industrial applications. Long-term availability is at least six years.

The BCM2837 processor - known from the Raspberry Pi 3 - and 1GB RAM form the basis of the Compute Modules. Moreover the board features 4GB eMMC Flash. The processor clocks at 1.2 GHz and is about 10 times the speed of the CM1, due to its 4 computing cores (quad-core). The module is plugged into a standard DDR2 SODIMM socket. Our Base Board gives customers access to the BCM2837 SoC's interfaces, including numerous GPIOs and UARTs.



Compute Module 3

Starter Kit

Our Starter KIT, consisting of a Base Board, CM3, a bright 10.1" IPS display with multi-touch PCAP as well as all necessary cables, helps developers to implement their own projects quickly and easily. Of course, a programming adapter and configuration software are also included. Thanks to pre-installed Raspbian, it is possible to start without any delay and to rely on the broad support of a huge community. Just unpack it and connect the supplied power supply.



The powerful processor opens up many new applications at a very attractive price. Developers who have so far hesitated to use the CM1 due to insufficient performance will be happy with the CM3. The full-fledged scaler chip and the real-time clock on the Base Board allow for accomplishing individual solutions e.g. for industrial HMI, medical, avionic, digital signage or digital whiteboard. The Internet of Things is the slogan. This solution works without an expensive PC with a lot of peripherals and can thus, without any license costs, intelligently network almost every device.

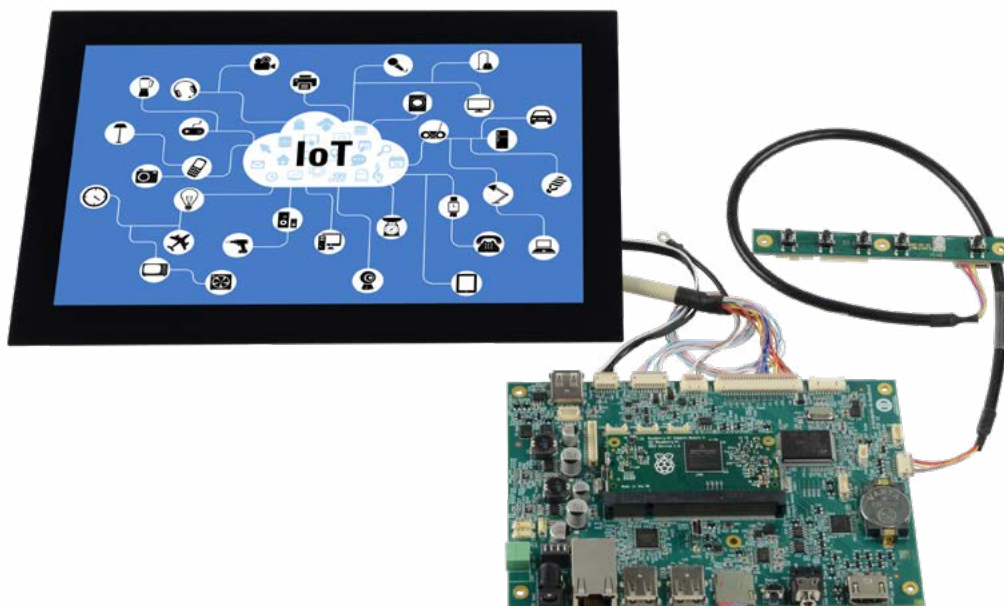
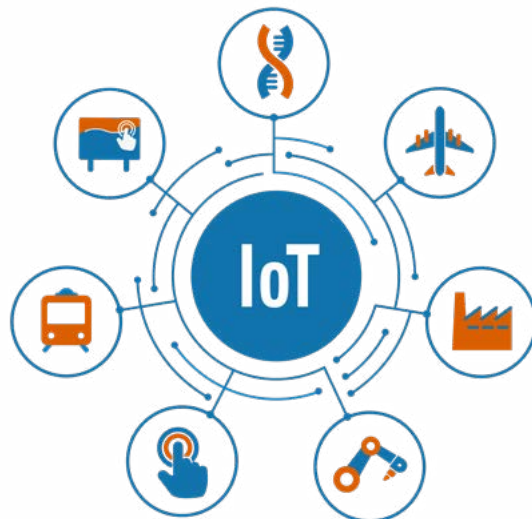
Artista-IoT based solutions

The Artista-IoT can be easily integrated into existing Windows and Linux environments and quickly be adapted to individual needs. Based on this new platform, Distec already offers a variety of solutions for a wide range of applications, including the VideoPoster-IV: a network-compatible MediaPlayer, which plays MPEG media files from a microSD card. Videos are transferred via USB or Ethernet.

Up to the third quarter, the second WebPoster generation will be completed: probably the easiest way to present HTML content.

With Raspbian as a basis for customer-specific software development, our professional POS line series monitor solutions received a „smart“ upgrade, too. Distec thus offer their customers an optimal basis for equally cost-effective and high-performance industrial monitors in a metal housing. Customers who want to equip their applications with individual visualization solutions without the large logo of a foreign brand on the front will be pleasantly surprised. The devices are delivered in neutral cartons or, if desired, with your own logo. This enables deliveries with your delivery note to service partners or customers directly from our warehouse.

These and numerous other applications can be accomplished with the Artista-IoT. Please do not hesitate to contact us, we are glad to advise you.



Artista-IoT – Important Facts at a Glance

- Future-proof due to intelligent, modular design.
The performance can be adapted as required by attaching future CM generations.
- Nearly every TFT display can be controlled directly
- Special functions such as DICOM pre-set, gamma correction, color calibration are possible
- Fully integrated solution helps avoiding EMC problems and offers high performance at low energy consumption
- Artista-IoT starter kit available
- High-tech in the smallest of spaces: Raspberry Pi Compute Module (CM3)
- Long-term availability at least 6 years
- Durable: suitable for 24/7 operation
- Compatibility with the Raspberry Pi ensures the broad support of a large developer community
- Open platform with Raspbian support
- Customer-specific solutions can be implemented quickly on a project basis
- Incomparable value for money with proven technology
- Simple and fast accomplishment even of small projects starting from quantity 1

Technical Data Overview

Raspberry Pi CM3	
CPU	Quad Core 64-bit ARM Cortex A53 @ 1.2GHz, VideoCore IV GPU
Graphics	Hardware video acceleration (MPEG2, MPEG4, H.264, VC-1 up to max. 1080p60), OpenGL ES 2.0 3D
Memory	4 GB on-board eMMC
RAM	1GB LPDDR2 SDRAM
Pre-installed operating system (optional)	Raspbian

Artista-IoT BaseBoard	
Interfaces	<ul style="list-style-type: none"> • LVDS • HDMI input • Audio Line Out • 100MBit Ethernet • 3 x USB • Micro SD card • I²C + USB • GPIO • 3 x UART • Keypad • I/R • Light Sensor
Other	Real-time clock, Scaler Chip

For more information visit:

www.distec.de > [products](#) > [TFT-controller](#) > [IoT /Industry 4.0 /Raspberry](#)

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