



Industrial IT

## ADS-TEC Industrial IT Product Overview

08/2024

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## Modern HMI solution for the production environment

MES9000: With the new MES9000 series, three application areas are covered with just one product. The MES9000 can be used either as a shop floor terminal, machine panel PC or in harsher environments as a rugged shop floor terminal. The MES9000 series has been designed as a hardware response to the increased requirements of modern visualisation software in automation. These modern HMIs impress above all with their performance, connectivity and usability. Operators of plants and machines can now visualise their manufacturing processes much more clearly and operate them more easily. In addition, operating and order data can be collected efficiently.



> For more information visit  
[www.ads-tec-iit.com/en/mes-terminals](http://www.ads-tec-iit.com/en/mes-terminals)

## Industrial Terminals – MES9000 series

	MES9016	MES9019	MES9024
<b>Display</b>	15.6“ TFT Full HD	18.5“ TFT Full HD	23.8“ TFT Full HD
<b>Touch</b>	PCAP Multi-Touch (can be operated with gloves)		
<b>Processor</b>	Intel® Celeron® Intel® Core™ i5		
<b>RAM</b>	Up to 32 GB DDR4 RAM		
<b>Interfaces</b>	4 x USB 3.1, 3 x Ethernet, 1 x DisplayPort 1.2, 1 x smartcard reader Optional: Hilscher netJACK module, HDBaseT™- interface (transmitter), Wi-Fi /Bluetooth, RFID		



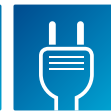
Passive  
cooling



Protection  
class IP65



IK08 shock  
resistance



Integrated AC  
or DC power  
supply unit



HDBaseT  
100m



Fieldbus





# Robust HMIs for VESA and support arm mounting

MED9000: The robust monitor of the MED9000 series can be seamlessly integrated into machines and systems, thanks to its straightforward arm and VESA mounting. With its full HD widescreen display and multi-touch technology, it offers top-tier usability. Available in three different inch sizes, this HMI is designed for various application scenarios and the increased requirements with regard to machine visualisation. The optionally integrable HDBaseT receiver module enables the transmission of multimedia signals such as image, sound and touch control up to 100 m - via a single cable.



> For more information visit  
[www.ads-tec-iit.com/en/med9000](http://www.ads-tec-iit.com/en/med9000)

# HMI Monitor – MED9000 series

	MED9016	MED9019	MED9024
<b>Display</b>	15.6“ TFT Full HD	18.5“ TFT Full HD	23.8“ TFT Full HD
<b>Touch</b>	PCAP Multi-Touch (can be operated with gloves)		
<b>Interfaces</b>	1 x HDMI, 1 x DisplayPort, 3 x USB 2.0, 1 x USB Slave Optional: HDBaseT interface (receiver)		



Protection class IP65



IK08 shock resistance



Integrated DC power supply unit



HDBaseT 100m





## Fanless built-in panel PCs for production environments

OPC9000: Our fanless built-in HMI panel PCs provide more freedom in process design in production environments. The innovative mounting concept allows for quick installation in any machine or system - without special tools or separate mounting parts. The integrated 8th generation Intel® processors are a guarantee for smooth human-machine interaction. And for additional connection of fieldbus protocols, our OPC9000 models can be equipped with a Hilscher netJACK module.



➤ For more information visit  
[www.ads-tec-iit.com/en/opc9000](http://www.ads-tec-iit.com/en/opc9000)

## HMI Panel PCs – OPC9000 series

	OPC9016	OPC9019	OPC9024
<b>Display</b>	15.6“ TFT Full HD	18.5“ TFT Full HD	23.8“ TFT Full HD
<b>Touch</b>	PCAP Multi-Touch (can be operated with gloves)		
<b>Processor</b>	Intel® Celeron® Intel® Core™ i5		
<b>RAM</b>	Up to 32 GB DDR4 RAM		
<b>Interfaces</b>	4 x USB 3.1, 3 x Ethernet, 1 x DisplayPort 1.2, 1 x smartcard reader Optional: Hilscher netJACK module, HDBaseT™-interface (transmitter)		



Passive cooling



Protection class IP65



IK08 shock resistance



Easy mounting



HDBaseT 100m



Fieldbus







# Full-HD monitor solutions for modern software applications

OPD9000: Behind this acronym are our Full-HD widescreen monitors, which make even demanding software applications easy to operate. The built-in multi-touch technology allows for comfortable multi-finger operation - even with work gloves. Thanks to its innovative mounting concept, our OPD9000 monitors can be quickly integrated into control panels and machine housings - completely without special tools or additional mounting parts. With the optional HDBaseT receiver module, the IPC9000 can be installed in the control cabinet and the OPD9000 can be placed up to 100 m away.

# HMI Monitors – OPD9000 series

	OPD9016	OPD9019	OPD9024
<b>Display</b>	15.6“ TFT Full HD	18.5“ TFT Full HD	23.8“ TFT Full HD
<b>Touch</b>	PCAP Multi-Touch (can be operated with gloves)		
<b>Interfaces</b>	1 x HDMI, 1 x DisplayPort, 3 x USB 2.0, 1 x USB Slave Optional: HDBaseT™-interface (receiver)		



> For more information visit  
[www.ads-tec-iit.com/en/opd9000](http://www.ads-tec-iit.com/en/opd9000)



Protection class IP65



IK08 shock resistance



Easy mounting



HDBaseT 100m



## Easy-to-install box PCs for control cabinet installation

IPC9000: Our robust box PCs enable particularly demanding applications in industrial environments. They can be quickly installed in control cabinets by simply hooking them in. A sophisticated and fanless cooling concept allows for the use of powerful processors. With the optional HDBaseT transmitter module, the IPC9000 can be installed in the control cabinet and connected to a monitor such as the OPD or MMD series, up to 100 m away. One special feature: via an easily accessible service hatch cover, users can quickly access the flash SSD or CMOS battery.



➤ For more information visit  
[www.ads-tec-iit.com/en/ipc9000](http://www.ads-tec-iit.com/en/ipc9000)



reddot winner 2020

## Industrial Box PC – IPC9000 series

IPC9000	
Processor	Intel® Celeron® Intel® Core™ i5
RAM	Up to 32 GB DDR4 RAM
Interfaces	4 x USB 3.1, 3 x Ethernet, 1 x DisplayPort 1.2, 1 x smartcard reader Optional: Hilscher netJACK module, HDBaseT™-interface (transmitter)



Passive  
cooling



Easy  
mounting



HDBaseT  
100m



Fieldbus



# Compact and robust HMIs for process visualisation

OPC8000/OPD8000: Our long-term available HMI panel PCs and HMI monitors are the long runners in the ADS-TEC Industrial IT portfolio and have been successfully used in demanding industrial environments for years. They have a capacitive touch-screen, allowing users to visualise and control processes in a clear way. Thanks to their galvanised sheet metal housing and thermally treated IP65 front glass, they can be used even under extreme stress. With the optional HDBaseT module, sending and receiving multimedia signals up to 100 m with just one cable is possible.

## HMI Panel PCs and Monitors – OPC/OPD8017/24

	OPC8017	OPC8024	OPD8017	OPD8024
<b>Display</b>	17.3“ TFT Full HD	23.8“ TFT Full HD	17.3“ TFT Full HD	23.8“ TFT Full HD
<b>Touch</b>	PCAP Multi-Touch (can be operated with gloves)			
<b>Processor</b>	Intel® Celeron® Intel® Core™ i5		-	
<b>RAM</b>	4 GB DDR3 RAM 8 GB DDR3 RAM		-	
<b>Interfaces</b>	2 x USB 3.0, 1 x USB 2.0, 2 x Ethernet, SD card slot		3 x USB 2.0, 1 x USB 2.0 Slave, 1 x HDMI, 1 x DisplayPort Optional: HDBaseT™ module	



> For more information visit  
[www.ads-tec-iit.com/en/opc8000](http://www.ads-tec-iit.com/en/opc8000)



Passive  
 cooling



Protection  
 class IP65



HDBaseT  
 100m





## Cleanroom-compatible panel PCs for hygienic industries

MMT8000/MMD8000: Certified by Fraunhofer IPA with maximum GMP cleanliness class A/B, our machine-mounted terminals and monitors are the ultimate solution for users with the highest demands for hygiene, performance and ease of use. Powerful processors and a capacitive multi-touchscreen enable smooth process visualisation in the production of food, beverages, pharmaceuticals and chemical products. In order to meet the strict hygiene requirements of the food, chemical, and pharmaceutical industries, the closed stainless steel housing is designed according to the HYGIENE COMFORT DESIGN, so that it can also withstand cleaning by high-pressure cleaners.



For more information visit  
[www.ads-tec-iit.com/en/mmt8000](http://www.ads-tec-iit.com/en/mmt8000)

## Hygiene Panel PCs and Monitors – MMT/MMD8000 series

	MMT8017	MMT8024	MMD8017	MMD8024
<b>Display</b>	17.3" TFT Full HD	23.8" TFT Full HD	17.3" TFT Full HD	23.8" TFT Full HD
<b>Touch</b>	PCAP Multi-Touch (can be operated with gloves)			
<b>Processor</b>	Intel® Celeron® Intel® Core™ i5		-	
<b>RAM</b>	4 GB DDR3 RAM 8 GB DDR3 RAM		-	
<b>Interfaces</b>	2 x USB 3.0, 1 x USB 2.0, 2 x Ethernet, 1 x SD card slot		3 x USB 2.0, 1 x USB 2.0 Slave, 1 x HDMI or DisplayPort Optional: HDBaseT™ module	



Passive cooling



IK08 shock resistance



Protection class IP65/  
IP69k



Hygienic Blue seal



Wi-Fi



User identification



## Compact HMI monitor solution for tasks in hygiene areas

MMD9000: The compact monitors of the MMD9000 series were designed to ensure maximum safety in process visualisation in hygiene areas. Its flexible mounting concept allows for horizontal or vertical orientation of the monitor. The all-round closed, edge- and screw-free stainless steel housing is certified by Fraunhofer IPA with maximum GMP cleanliness class A/B, making it ideal for use in the food, beverage, pharmaceutical and chemical industries.



➤ For more information visit  
[www.ads-tec-iit.com/en/mmd9000](http://www.ads-tec-iit.com/en/mmd9000)

## Hygiene Monitors – MMD9000 series

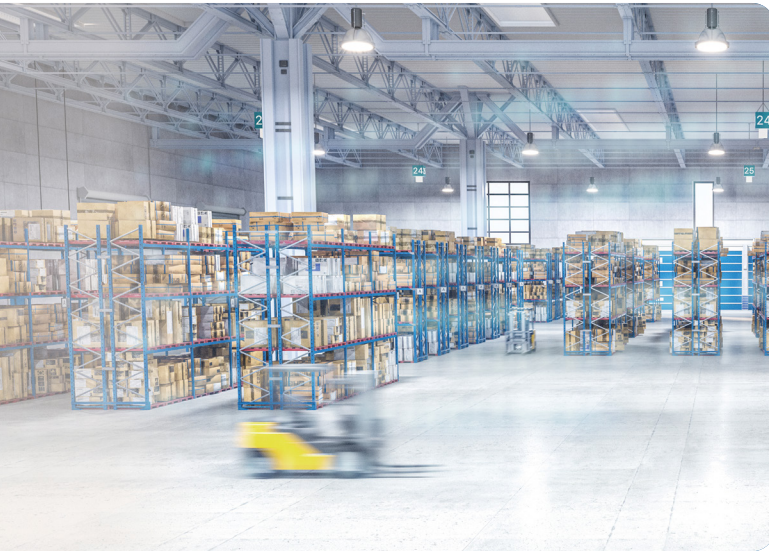
MMD9016	
Display	15.6“ TFT Full HD
Touch	PCAP Multi-Touch (can be operated with gloves)
Interfaces	1 x USB 2.0 Slave, 1 x HDMI or DisplayPort



Hygienic  
Blue seal



Protection  
class IP69k



## Logistics and vehicle terminals for indoor, outdoor and refrigerated areas

VMT9000: Available in different display sizes, the fanless 5th generation vehicle mounted terminals are suitable for all logistics, agricultural and construction machinery. Their particularly compact yet enormously robust design ensures that the terminals work reliably even in extreme situations. In addition, the display is sunlight readable and thus easy to read even in outdoor areas with direct sunlight. In addition to Windows®, IGEL and Linux, they can now be equipped with Android™ and feature helpful industrial features such as a kiosk mode.



For more information visit  
[www.ads-tec-iiit.com/en/vmt9000](http://www.ads-tec-iiit.com/en/vmt9000)



reddot award 2019  
 winner



## Vehicle Mounted Terminals – VMT9000 series

	VMT9010	VMT9012	VMT9015	VMT9112
<b>Display</b>	10.4" TFT XGA	12.1" TFT XGA	15.0" TFT XGA	12.1" TFT WXGA
<b>Touch</b>	PCAP multi-touch Resistive industrial touchscreen			PCAP multi-touch
<b>Processor</b>	Intel Atom®			
<b>RAM</b>	8 GB LPDDR4 RAM			
<b>Wi-Fi</b>	IEEE 802.11 a/b/g/n/ac/ax			



**NEW**  
 Now with Android™



Usable with  
 gloves



IK09 shock  
 resistance



Protection  
 class IP66



UPS function



Wide range  
 power supply



Ignition  
 function





# Wired solution for signal transmission in production

HDBaseT: With our robust solution for wired transmission, users in the production environment can transmit video and USB signals up to 100 m without interference - ideal for those who need a range exceeding the 15 m achievable via DP or HDMI. Available as a standalone transmitter module, as well as with or without an additional receiver module, HDBaseT can be attached to a DIN rail by simply snapping it in place, where it will operate reliably even under extreme conditions.



> For more information visit  
[www.ads-tec-iit.com/en/hdbaset](http://www.ads-tec-iit.com/en/hdbaset)

# HDBaseT Box - transmitter and receiver

	RX (Receiver)	TX (Transmitter)
Housing	Die-cast aluminum housing, powder coated	
Cooling	Passive cooling, fanless	
Interfaces	1 x USB (Typ A) 1 x HDMI 1 x HDBT (RJ45 for CAT6a cable) 1 x DCIN	1 x USB (Typ B) 1 x HDMI 1 x HDBT (RJ45 for CAT6a cable) 1 x DCIN
Power supply	12-24VDC +/- 20%	



Passive cooling



Easy mounting



## Industrial router firewalls for network security

IRF1000/IRF3000: Our firewalls of the 1000 and 3000 series are true all-in-one security solutions. They combine multiple products in a single housing and excel in use as a remote maintenance center, router or edge device, where they connect, control and locally secure linked machines and systems without cascading. Through the integration of Docker technology our IRFs can process data themselves and are thus the ideal platform for a variety of applications in the IIoT.



> For more information visit  
[www.ads-tec-iit.com/en/irf1000-3000](http://www.ads-tec-iit.com/en/irf1000-3000)

## Industrial Firewalls and Router – IRF1000/3000 series

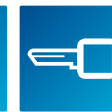
	IRF14x1	IRF34x1	IRF38x1
<b>Housing</b>	Plastic housing	Die-cast aluminum	
<b>Interfaces</b>	4 x 100 Mbit/s 1 x RS485 1 x Digital IN	4 x 1000 Mbit/s 1 x RS485 2 x Digital IN 1 x Digital OUT	8 x 1000 Mbit/s 1 x RS485 5 x Digital IN 4 x Digital OUT
<b>Mobile connectivity</b>	1 x SMA WWAN antenna	2 x SMA WWAN antenna	2 x SMA WWAN antenna 1 x SMA GPS antenna



WWH Data  
Push



Smartcard  
security  
concept



Key switch



Long time  
available



Big-LinX  
ready



## Secure remote maintenance solution for Industry 4.0 and IIoT applications

The IIoT service and maintenance platform Big-LinX from ADS-TEC is a versatile tool for remote maintenance of machines and systems, as well as for more extensive IIoT functionalities. Expensive machine downtime can be reduced or even avoided due to preventive and direct measures. All machine data can be graphically processed in dashboards and alarms can be set up via the cloud. Big-LinX offers customers future security in many ways, as the portal grows with the needs of the customers. This allows the digitisation of a company to be constantly expanded.

### Big-LinX Edge Client

With the Big-LinX Edge Client, any machine can be remotely operated and maintained via a Windows-based HMI. The remote maintenance point thus becomes the HMI and no additional hardware is required.



> For more information visit  
[www.ads-tec-iit.com/en/biglinx](http://www.ads-tec-iit.com/en/biglinx)



## Software for remote access to decentralised systems and equipment

Our remote desktop software allows service staff to access and operate desktops of remote systems and equipment in real-time - without the need to be on-site. The Windows-based PC screen surface of X-Remote® provides for easy operation. Operation is carried out in Ethernet and thus with no time delay. Using X-Remote®, central firmware updates can be installed, processes monitored and adjusted, or monitoring centers set up - in real-time, with maximum security standards and much more cost-effective, so that no on-site personnel are required.



> For more information visit  
[www.ads-tec-iit.com/en/xremote](http://www.ads-tec-iit.com/en/xremote)



## Individualise together

Customise the design of our standard devices to match your CI requirements. Make our product yours!



### At a glance

- › Customisation of housing colours and seals
- › Design of buttons: colours, symbols and lettering
- › Placement of your company logo

## Create together

Develop your product with us as a partial or new development, customised to your individual needs.



### At a glance

- › Configuration of BIOS or firmware
- › Software: Windows or Linux images according to your needs
- › Processors: ARM or Intel
- › Operating systems: Windows, various Linux distributions and Android

## Create together Turn your product vision into reality.

Thanks to our 100% depth of development, we can realise a customised product solution for you. Both hardware and software are entirely from us – 100% Made in Germany. You decide everything else.

We have extensive experience in various industrial sectors. Together, we will develop the right solution for your application.

Throughout our entire development process, we already consider - in accordance with the Cyber Resilience Act - future requirements for the product security over its entire lifecycle. We are with you at every step of the process.



40  
SINCE 1980

TECHNOLOGY  
MADE IN GERMANY

› For more information visit  
[www.ads-tec-iit.com/en/customised-products](http://www.ads-tec-iit.com/en/customised-products)





Industrial IT

## ADS-TEC Industrial IT Technology for Professionals

ADS-TEC Industrial IT GmbH is part of the ADS-TEC Group. In addition to the headquarters in Nuertingen near Stuttgart, the production site is located in Dresden.

For over 40 years, the company has been developing and producing many tried-and-tested IT solutions with long-term availability for industrial use.

Its product portfolio includes terminals, industrial panel PCs, firewalls as well as IIoT services for the remote maintenance of machines and systems. All products are developed in Germany and manufactured in-house.



For more information visit  
[www.ads-tec-ii.com/en](http://www.ads-tec-ii.com/en)

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