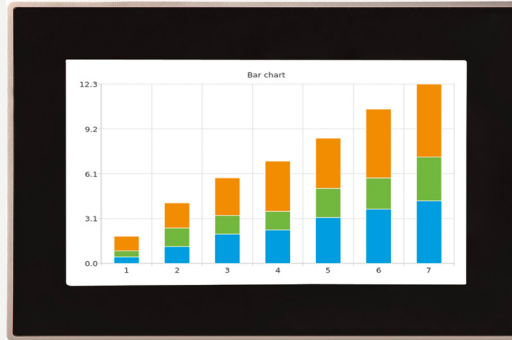


▶ DISPLAY-LINE DL 7" I.MX8M MINI



Display-Line

TOUCH-PANEL DL 7" I.MX8M MINI

Modern, sophisticated 7" touch displays are a must-have for many applications. The DL i.MX8M Mini can be deployed in a wide range of settings, e.g. industrial plants and machinery. In engineering, for instance, it can serve as a decentralized operating and display unit, in "smart building" management it can be used to communicate with the lighting, heating and shading systems. The device can also simplify and optimize processes in other fields of application such as logistics.

The low-cost, 7" format Display Line panel features outstanding optical capabilities and a wide viewing angle. It is designed for installation in switch cabinets and control consoles and almost any other mounting option. The i.MX8M Mini processor board is the perfect solution for demanding 3D graphics applications and computing-intensive automation tasks. Without additional license costs, the unit also includes an Embedded Linux operating system as a basis for a wide variety of applications and human-machine interfaces.

▶ FEATURES

- ▶ PCAP Multitouch
- ▶ Aluminium front
- ▶ Embedded Linux Operating system

▶ CLIENT BENEFITS

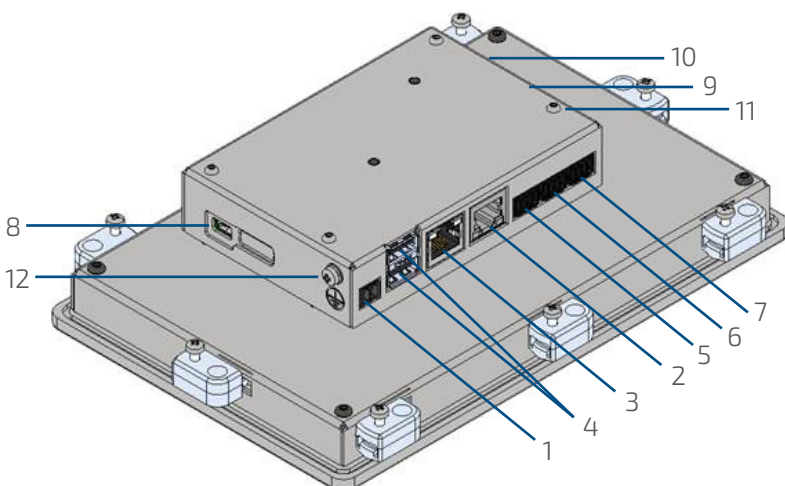
- ▶ High-quality design
- ▶ Long-term availability
- ▶ Flexible assembly
- ▶ Compact design
- ▶ Excellent price/performance ratio

▶ APPLICATIONS

- ▶ IoT/Industry 4.0
- ▶ Communication
- ▶ High-end Touch-Display
- ▶ Mechanical engineering
- ▶ Building automation

► TECHNICAL DATA

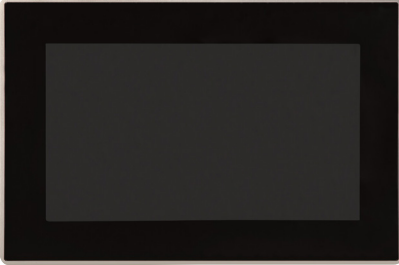
HUMAN-MACHINE-INTERFACE		
FUNCTION		OPTIONEN
Front	Aluminium front frame	
Display	7" IPS, 1024 x 600 Pixel 450 cd/m ²	
Touch	PCAP Multitouch	
OTHER		
Power supply	24V DC ±20 %	
Power consumption	Linux running <6 W	
RTC buffering	Battery CR1220	
Dimensions (wxhxd)	Alu front: 200.1 x 131.9 x 46.5 mm	
Temperature range	0 °C...+55 °C	
Protection class	Front IP65, back IP20	
CPU-UNIT		
CPU	i.MX8M Mini 4x Arm® Cortex®-A53 @1.6 GHz, 1x Arm® Cortex®-M4 @400 MHz	
MEMORY		
LPDDR4	1 GB	2 GB, 4 GB
NOR-FLASH	2 MB	
eMMC	8 GB	4 GB up to 64 GB
SD card	1x microSD Card Slot	
nv Memory	8 kB (64 kb) EERAM	
COMMUNICATION		
Ethernet	1x Gbit/s, 1x 10/100 Mbits/s	
USB	2x 2.0 Host, 1x 2.0 OTG	
Serial	1x RS232, 1x RS485	
CAN	1x CAN 2.0	
DIO	4x DIO (24V/up to 800mA)	
SOFTWARE		
Bootloader	U-Boot	
Operating system	Embedded Linux (Yocto Distribution)	
RTC	5ppm accuracy	
RTC buffering	CR1220	
Debug	1x Console	



- | | |
|----|--|
| 1 | DC Power Connector (2-pin Phoenix Contact) |
| 2 | Gbit/s LAN1 RJ-45 Connector |
| 3 | 10/100 Mbit/s LAN2 RJ-45 Connector |
| 4 | USB 2.0 Port 0 / 1 Connector (upper/lower) |
| 5 | RS232 Connector |
| 6 | RS485/CAN Connector |
| 7 | DIO Connector |
| 8 | Debug UART Connector |
| 9 | USB OTG Connector |
| 10 | microSD Card Slot |
| 11 | Switch CAN Address |
| 12 | Functional Earth Connector |

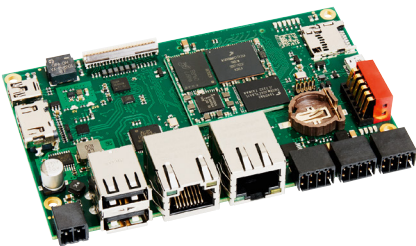
▶ PRODUCT DISPLAY-LINE

PRODUCT NAME	ARTICLE NO.	OPTIONS
DL 7" i.MX8M Mini 1GB/8GB	50099 072	–
DL 7" i.MX8M Mini 4GB/32GB	TBD	–



▶ PRODUCTS BOARD-LINE

PRODUCT NAME	ARTICLE NO.	OPTIONS
BL i.MX8M Mini Quad 1 GB/8 GB	40099 187	–
BL i.MX8M Mini Quad 2 GB/8 GB	On request	–
BL i.MX8M Mini Quad 4 GB/32 GB	40099 220	–
AC Connector Set BL/AL/DL	30099 003	Order in addition to BL i.MX8M Mini Quad
USB-UART Adapter	40099 101	–



▶ PRODUCTS AUTOMATION-LINE

PRODUCT NAME	ARTICLE NO.	OPTIONS
AL i.MX8M Mini Quad 1 GB/8 GB	50099 067	–
AL i.MX8M Mini Quad 2 GB/8 GB	On request	–
AL i.MX8M Mini Quad 4 GB/32 GB	50099 068	–
AC Connector Set BL/AL/DL	30099 003	Order in addition to AL i.MX8M Mini Quad
USB-UART Adapter	40099 101	–



POSSIBILITIES START HERE



► ABOUT KONTRON ELECTRONICS

Kontron Electronics GmbH is a full-service provider in the field of electronics, development and manufacturing services. Our business portfolio includes proprietary and client-specific products, development and design services for complex electronics components, modules and systems, as well as production and assembly services for entire devices. The company is part of Kontron and the technology corporation S&T.

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