Our MOTOMETER MCA 350

Discover the MCA 350 – your reliable 3.5-inch color display with Linux operating system. Explore the versatility of our open LinX software platform, which provides powerful tools for application development. Opt for developing your graphical user interface with Qt and take advantage of a QVGA high-brightness display, along with hardware-accelerated 2D, 3D, and vector graphics for rapid design of premium user interfaces. Thanks to the 4 freely configurable, backlit soft keys, operators can efficiently interact with the system.

The MCA 350 offers multifunctional capabilities and can be used as an instrumentation display, machine control HMI, electronic manual, and much more. Utilize our advanced graphical features and multifunctional capabilities to develop a space-saving graphical user interface, reducing costs and space requirements in your operator environment and cabin.

Ready for a revolution in user interface? Contact us now for ordering and a custom quote!

Optimize your processes: personal advice and order today!

Our experienced team is on hand to help you with any questions you may have and to develop customized solutions for your requirements. Contact us now!

Kernel

Main Processor: Freescale i.MX6 SoloX
Coprocessor: Runs watchdog functions controlling integrity of product, for increased reliability and safety
Storage 2GB: eMMC flash for operating system and applications
RAM: 512 MB SDRAM
GPU: Integrated Graphics Processing Unit supporting hardware accelerated 2D, 3D and vector graphics

Display

Type: TFT with LED backlight
Cover Lens: Glass with anti-glare treatment
Size and Resolution: 3.5 QVGA, 320240 pixels
Color Depth: 18 bit
Contrast Ratio: 1000:1
Brightness: 520 Cd/m²
Dimming: Dimming 0 -100%. Dimming can be controlled manually via soft keys or from the software application

Interfaces

CAN: 1 x CAN, physical layer ISO11898 2.0B and J1939-11. Bitrate configurable 20 kbps – 1 Mbps.
Ethernet: 1 x Ethernet. 10/100 Base-T.
USB: 1 x USB 2.0.
Inputs: 4 configurable inputs (voltage 0-5V, resistive, frequency, digital in with PU/PD). 3 analog inputs, voltage 0-5V.
Outputs: 2 configurable outputs, low-side type, 1A. May be used for continuous driver or PWM output.
Power Supply: 12 or 24 VDC nominal voltage. Voltage range 6-32 VDC.
Key Switch: 1 x Key switch input, for start-up/shut down

HMI

Soft Keys: 4 soft keys, configurable. Soft keys can be used as function keys for the GUI, to control Power On/Off, to control display brightness etc. Backlight indicators with individual ON/OFF.
Buzzer: Configurable buzzer for alarms and notifications.

Software

Operating System: Linux
Software Application Platform: LinX Software Suite, basic package. Extension modules available, eg. CODESYS.
CCAUX API: Power management, diagnostics, startup and sleep behavior configuration, button configuration, LED control, buzzer, etc.

Environment

IP Class: yIP66 and 67
EMC Conformity: 2004/108/EC, ISO 14982:2009, ISO 13309:2010, ISO 13766-1:2018
Vibrations: 0.02g²/Hz, 5-500Hz 3x3h
Shock: ±50g /11ms ±3 x3, 18 total shocks
Temperature Range (°C): -20°C to +70°C (operating*), -30C to +80°C (storage)

Enclosure

Housing Material: Plastic PBT+PC
Mechanical Installation: Flush/panel mounting or mounting on stand/arm with diamond plate
Connectors: 2 x Deutsch DTM06-12 connectors

Size and Weight

W x H x D (mm): 119 x 79 x 48
Weight (kg): 0.25

Internal buzzer deactivated below -30°C.

Optimize your processes: personal advice and order today!

Our experienced team is on hand to help you with any questions you may have and to develop customized solutions for your requirements. Contact us now!