MD-215 Series

15-inch rugged industrial display

> 15-inch industrial-grade display
> -40 to 70°C wide-temperature design
> 1000-nit sunlight-readable LCD
> Glove-friendly multi-touch (touch model only)
> Fanless system design
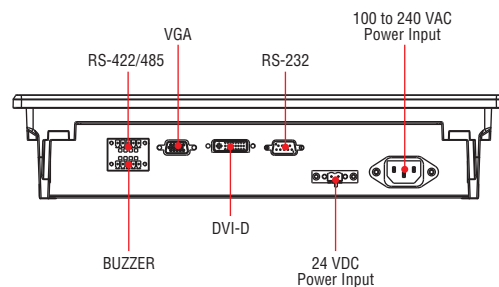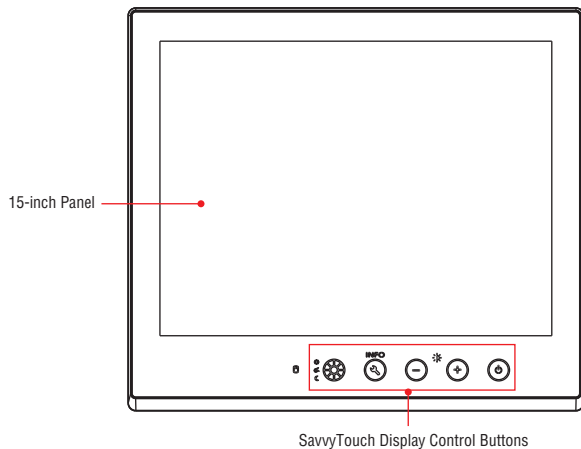> Multiple power supplies (AC & DC)

Introduction

The MD-215 15-inch display has a rugged design for industrial environments. The display uses VGA and DVI-D video signals to support a 1024 x 768 resolution, and comes with RS-232/422/485 ports for connecting serial devices.

The MD-215 series displays are designed with a wide, -40 to 70°C temperature range, making them some of the most reliable industrial platforms available for harsh, hot, indoor/outdoor environments.

The MD-215 series also features a 1000-nit LCD panel offering a sunlight-readable, projected-capacitive, glove-friendly, multi-touch screen, providing an excellent touch panel for outdoor applications.
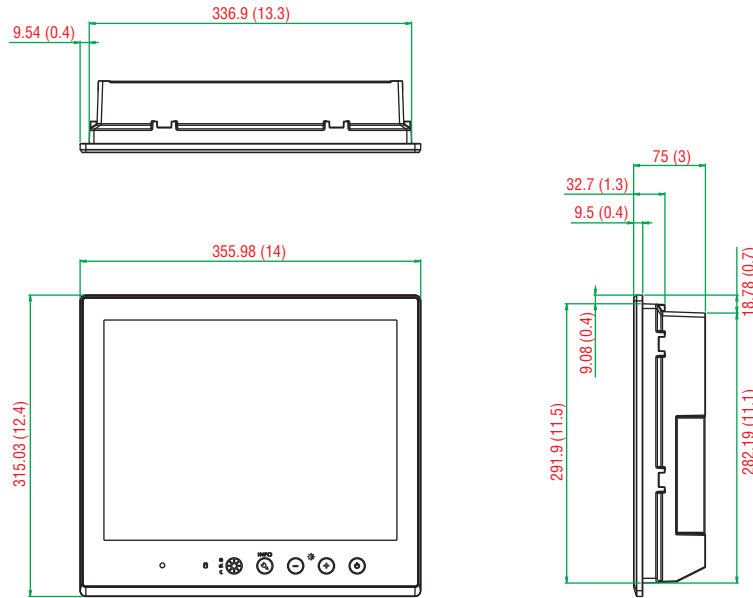
The MD-215 series supports both VESA- and panel-mounting, which can be implemented with accessories that can be purchased separately from Moxa.

Appearance

15-inch Panel

SavvyTouch Display Control Buttons

RS-422/485

VGA

RS-232

100 to 240 VAC Power Input

BUZZER

DVI-D

24 VDC Power Input

MOXA®

Dimensions

Unit: mm (inch)

336.9 (13.3)
9.54 (0.4)
355.98 (14)
315.03 (12.4)
75 (3)
32.7 (1.3)
9.5 (0.4)
9.08 (0.4)
18.78 (0.7)
291.9 (11.5)
282.19 (11.1)

Specifications

Display
Panel Size: 15-inch readable image size
Panel Type: TN
Touch: Capacitive multi-touch with glove-friendly support (touch models only)
Aspect Ratio: 5:4
Pixels: 1024 x 768
Pixel Pitch (RGB): 0.297 (H) x 0.297 (V) mm
Response Time: 20 ms (gray to gray)
Contrast Ratio: 700:1
Light Intensity: 1000 cd/m/m
Viewing Angles: 160°/140°
Active Display Area: 304.128 (H) x 228.096 (V) mm
Display Interface: VGA input x 1, DVI-D input x 1

Serial Interface
Serial Standards: 1 RS-232 port (DB9), 1 RS-422/485 port (terminal block)
Optical Isolation Protection: 4 kV

Serial Signals
RS-232: TxD, RxD, DTR, DSR, RTS, CTS, DCD, GND
RS-422: TxD+, TxD-, RxD+, RxD-, GND
RS-485-2w: Data+, Data-, GND

Front Panel
LEDs: MENU, brightness, INFO, Brightness mode, Day/Dusk/Night
Smart OSD: Yes

Physical Characteristics
Housing: Aluminum sheet metal
Weight: 6.1 kg (13.56 lb)
Dimensions: 356 x 315 x 77.2 mm (14.02 x 12.40 x 3.04 in)
Mounting: Panel (standard), VESA (mounting kit is optional)
System Cooling: Fanless thermal design

Environmental Limits
Operating Temperature: -40 to 70°C (-40 to 158°F)
Storage Temperature: -40 to 70°C (-40 to 158°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)
Anti-Vibration: 2 Grms, 5-500 Hz frequency, compliant with IEC 60068-2-6 standard
Anti-Shock: 20 Grms, half sine wave under system operating, 11 ms duration, compliant with IEC 60068-2-27 standard

Power Requirements
Input Voltage:
• DC: 12/24 VDC (Range 9 to 36 VDC)
• AC: 100 to 240 VAC
Power Consumption: 60 W (max.)

Standards and Certifications
Safety: UL 60950-1, IEC 60950-1
EMC: EN 55032/24
EMI: CISPR 32, FCC Part 15B Class A
EMS:
IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV
IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m
IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV
IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV
IEC 61000-4-6 CS: 3 V
IEC 61000-4-8
IEC 61000-4-11
Ingress Protection Rating: IP66 (front) / IP22 (rear)
Green Product: RoHS, cRoHS, WEEE

Warranty
Warranty Period: 3 years for system, 1 year for LCD panel
Details: See www.moxa.com/warranty

Marine Displays and Computers

: Ordering Information

Available Models

MD-215X-T: 15-inch display, DVI-D/VGA video output, AC/DC dual power, tape bonding
MD-215Z-T: 15-inch display, DVI-D/VGA video output, AC/DC dual power, multi-touch w/ glove friendly, tape bonding

Optional Accessories (can be purchased separately, for AC power input)

PWC-C13US-3B-183: 10A/125V North American (US) power cord, 183 cm
PWC-C13EU-3B-183: 10A/250V Continental European (EU) power cord, 183 cm
PWC-C13UK-3B-183: 10A/250V United Kingdom (UK) power cord, 183 cm
PWC-C13AU-3B-183: 10A/250V Australian (AU) power cord, 183 cm
PWC-C13CN-3B-183: 10A/250V China (CN) power cord, 183 cm

Optional Mounting/Bracket Kits (can be purchased separately)

MPC-MD-2-15-PMTK: 8 screws for panel mount
MPC-MD-2-15-VESAMTK: VESA-mounting bracket, 100 x 100 mm and 75 x 75 mm

Package Checklist

- MD-215 display
- VGA cable
- DVI-D cable
- 2-pin terminal block x 1
- 5-pin terminal block x 2
- Quick installation guide (printed)
- Warranty card