

# RUGGED MACHINE DISPLAY FOR GRADEMATRIX<sup>™</sup> SYSTEMS



FMD-1 is a next-generation rugged display and computer designed for tough and extreme conditions. Ideal for agriculture environments requiring an easy to read display, powerful I/O, and flexible adoption into multiple applications.

FMD-1 is equipped with a 10.1" edge-to-edge display containing a high-sensitivity touchscreen. Providing an IP65 rating, FMD-1 is designed to function in challenging environments including agriculture. Showcasing an outstanding image quality with a 1920x1200 resolution, the FMD-1 is easy to read and use in low or high visibility scenarios. With the processing power of an Intel dual-core processor, the FMD-1 will handle large file transfers and complex file formats.

FMD-1 includes 64GB of flash memory with the option to extend the storage capabilities with a MicroSD card. FMD-1 runs on either Linux or Windows platforms.

### Key Features

- High-resolution screen
- Powerful CPU for embedded applications
- Supports Linux and Windows OS options
- Connectivity with integrated cell modem

## System

**Processor:** Intel® Celeron N3350  
**System Memory:** DDR3L 1600 SO-DIMM 4GB  
**Storage:** M.2 SSD 64GB  
**Operating System:** Ubuntu 18.04 or Windows

## Screen

**Display Type:** 10.1" TFT edge-to-edge projective-capacitive multi-touch screen  
**Resolution:** 1920 x 1200, widescreen  
**Brightness:** 700 cd/m  
**Contrast Ratio:** 800:1  
**Max Colors:** 16.7M (8-bit)

## Communication

**COM Port:** 2x RS232  
**USB Port:** 2x USB 2.0  
**SD Slot:** 1x MicroSD  
**Ethernet:** 2x 10/100 LAN  
**CANBUS:** 2x CANBUS  
**Wi-Fi:** 802.11 a/b/g/n/ac (Up to 867 Mbps data rate)  
**Bluetooth:** Bluetooth 4.1  
**Cellular:** 4G LTE

## Mechanical

**Dimensions:** 9.30 in L x 6.73 in H x 1.40 in W  
**Mount:** RAM Mount (1.5 in x 1.18 in)  
4x M5-0.8 x 10 mm Philips screws provided

## Environmental

**Operating Temperature:** -4°F to 140°F  
**Operating Humidity:** 30% ~ 90% (Non-condensing)  
**Enclosure:** IP65

## Power

**Input Voltage:** 9 - 36 VDC

## Sensor and Multimedia

1x 1W Speaker



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