



## 10.1" Locomotive Panel Based on NXP i.MX 8M Mini CPU

### Features:

- i.MX 8M Mini CPU, 4 x Cortex-A53 core + 1 x Cortex-M4 core processor
- Supports Android 10.0 OS
- Equipped with 3 x digital silicon microphones, 2 x 8W loud speakers, 1 x ambient light sensor and 1 x camera
- With 4G module, 2 x RS485 outputs, 1 x CAN output, USB A and USB-TypeC interfaces
- Adapt to DC 72~144V high voltage input of locomotive with 12V output interface

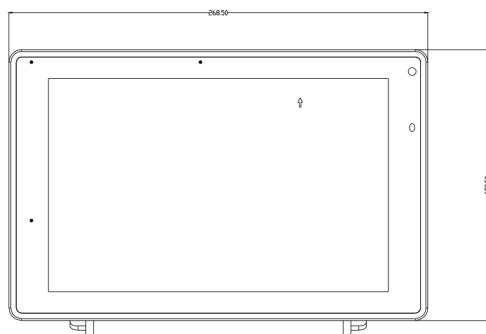


### Interfaces Specification:



## Specification:

System	
CPU	MIMX8MM6CVTKZAA: Quad Cortex®-A53, 1.6GHz (Support Consumer&Industrial i.MX 8M Mini SoloLite/Solo/DualLite/Dual/QuadLite/Quad)
Memory	Onboard 4GB LPDDR 4, Support2GB (Operating Temp. -20°C~70°C)
Flash	32GB eMMC5.1, Support 8GB/16GB/64GB/128GB (Operating Temp. -20°C~70°C)
OS	Android 10.0
Display & Touch Panel	
Display	10.1" Screen(BOE), 600 nit, 1280 x 800p
TP	Multi Touch Capacitive Touch Panel
Speaker	2W Speaker with waterproof sound transmission membrane (directly installed)
MIC	Built-in primary and secondary MIC with echo noise canceling
Light Sensor	Automatic brightness control function
Panel Size	268.5 x 173.5mm
Communication	
WIFI & BT	WIFI-2.4GHz/5GHz (Built-in wifi IEEE802.11a/b/g/n) , BT4.0
4G	Full Netcom 4G module
BD/GPS	Support
I/O Interfaces	
Power & Audio Interfaces	Power input + Audio differential output
TF Card	Installed on the panel, up to 128GB
SIM Card	Installed on the panel
USB	1 x USB Type-A, 1 x USB Type-C
100M LAN Ports	1 x 100M LAN, 2 x 100M LAN with 12V/GND output
RS485/CAN	2 x RS485 + 1 x CAN
Reset Button	Non self-locking reset button
Connectors	Connectors (processed by Chloroprene Adhesive), FPC connectors (reinforced by ACETATE)
Camera	
Pixels	Front camera, pixels>200W
Focusing	Automatic focus
Charging Dock	
Power Input	1 x Power Input (DC72~144V)
Power Output	2 x Power Output (Each one 12V/1.5A)
Panel Connection Interfaces	Power Output + Audio Differential Input (connected with panel)
Battery	Built-in lithium cell for 10-min operation
Speaker	2 x Built-in speakers (8Ω 5W, waterproof sound transmission membrane)



### ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9-year experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinner and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

