LILLIPUT®

MODEL NO.:
PC-7106
PRO

SCHOOL BUS
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7” MOBILE DATA TERMINAL

Mobile data terminal solutions for fleet management, data transmission and navigation

- i.MX 8M Mini
- Rich Interfaces
- IP64 Rating
- Capacitive Touch
- 4G / Wifi / Bluetooth / GNSS
- Android 9.0
- Linux Debian 10

ARM Architecture

i.MX 8M Mini Cortex®-A53 Quad-core platforms up to 1.8GHz embedded processor

Automotive Grade for i.MX 8

The i.MX 8M Mini is embedded multicore applications processor built using advanced process technology, providing more speed and improved power efficiency. With industrial level qualification and backed by longevity program, the i.MX 8M Mini may be used in any general purpose industrial and fleet management application.

OS Support

Android 9.0 / Linux Debian 10

CPU

i.MX 8M Mini Cortex®-A53 1.6GHz quad-core / Cortex®-M4 core 400MHz

GPU

3D GPU (1 × shader, OpenGL® ES 2.0), 2D GPU

RAM / ROM

RAM / ROM: 2GB+16GB or 4GB+32GB

Touch

7” multi points capacitive touch screen

Interfaces

DC, COM, GPIO, CAN, LAN, USB, Micro SD card, SIM card, Earphone jack...

Mounting

75mm VESA mounting

Power

Without battery: DC 10 - 36V; Built-in battery: DC 11 - 36V

Bluetooth

Bluetooth 5.0 2402MHz~2480MHz

Wi-Fi

IEEE 802.11a/b/g/n/ac, 2.4GHz & 5GHz

Cellular Network

LTE, DC-HSPA+, WCDMA, GSM

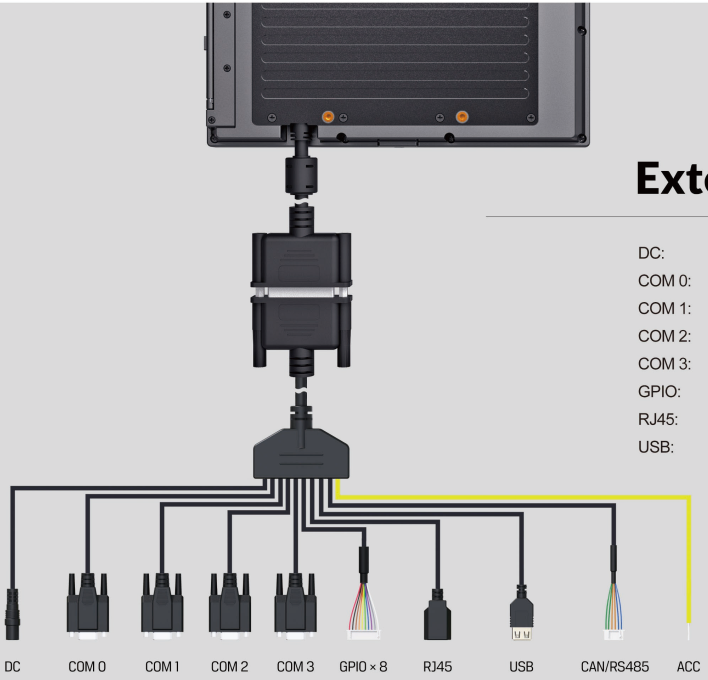
GNSS

GPS, GLONASS

Applications
07:53
root
File Sy...
Home
Trash
524 M...
LILLIPUT
1
2
3

IP 64 Rating

It is designed to carry IP64 rating of protection which offer complete protection against particles and dust, and a good level of protection against water, up to water spray and light rain against ABS plastic housing from any direction.



Extension Interfaces

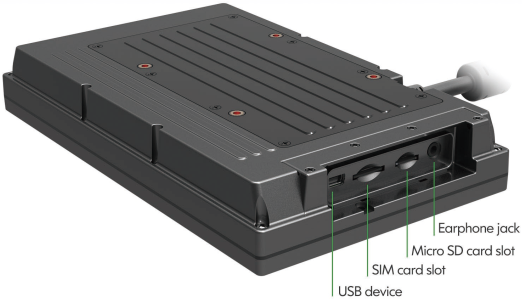
DC:	DC 10-36V Power (DC 11-36V with battery)
COM 0:	Bluetooth or RS232 are optional
COM 1:	RS232
COM 2:	GNSS (Built-in / External) or RS232 are optional
COM 3:	RS232 (COM 3 fails when RS485 is available)
GPIO:	Each cable can be customized for input or output
RJ45:	LAN 1000M
USB:	USB 2.0 host

CAN:	Integrated CAN × 1 by default, CAN × 2 are optional
RS485:	COM 3 fails when RS485 is choosed
ACC:	ACC connection cable are optional

ACC
CAN
GPIO
GNSS
WIFI & BLUETOOTH
4G
1G
2G
3G
5G

Diversified Functions

Abundant extended modules, which makes the device much powerful, for example, ACC, CAN, GNSS, sensors, bluetooth, Wifi, 4G and camera. We are committed to building a tablet pc that fits the solutions of every team so that all hardware can be customized to meet the best needs or cost savings!



Built-in Battery (optional)

An optional 2200mAh battery is available.

- Do not expose the device to temperatures above 40°C to avoid battery damage.

SPECIFICATION

SYSTEM	
CPU	NXP i. MX 8M Mini, ARM® Cortex®-A53 Quad-Core 1.6GHz processor
	ARM® Cortex®-M4 core 400MHz
GPU	3D GPU (1 × shader, OpenGL® ES 2.0), 2D GPU
OS	Android 9.0 / Linux Debian 10
RAM+ROM	2GB LPDDR4+16GB Flash or 4GB LPDDR4+32GB Flash are optional
Video Decode	1080p60 (H.265, VP9, H.264, VP8)
Video Encode	1080p60 (H.264)
Sensors	Gyroscope & accelerometer; Compass.
DISPLAY	
LCD	7 inch IPS, 800 × 480 resolution, 450 nit
Touch	Capacitive touch screen
INTERFACES	
LAN	1000M
GPIO	× 8 (Software freely define input and output)
COM	RS232 × 4;
	or RS232 × 3 + RS485 × 1;
	The optional Bluetooth and GPS will each occupy an RS232 port.
SIM Card	× 1
SD Card	× 1
USB	USB2.0 Device × 1, USB2.0 Host × 1
Earphone Jack	3.5mm
OPTIONAL FUNCTIONS	
CAN	× 2 (Integrated CAN × 1 by default, CAN × 2 are optional)
Cellular Network	3G / 4G
WiFi	IEEE 802.11 a/b/g/n/ac; 2.4GHz / 5GHz
Bluetooth	5.0
GNSS	Built-in or external
ACC	× 1
Camera	5.0MP(Front)
Microphone	Built-in Microphone
POWER	
Power Supply	DC 10-36V (DC 11-36V with built-in battery)
Power Consumption	≤ 10W
Battery (optional)	Built-in 2200mAh
OTHERS	

Speaker	× 1
Dimension	220 x 132 x 36.5 mm
Weight	740g
Environment	Dust resistance test: IP6x
	Water resistance test: IPx4
	Operating temperature: -10°C ~ 65°C (14°F ~ 149°F); Built-in battery: 0°C ~ 40°C (32°F ~ 104°F)
	Storage temperature: -20°C ~ 70°C (-4°F ~ 158°F)

Accessories

STANDARD

Extension Cable

DC 12V Power Adapter

Mini USB Cable

User Manual
Please scan the QR code to DOWNLOAD
用户使用手册
请扫描右侧二维码 下载
Thank you for purchasing our product!

Electronic User Guide

OPTIONAL

VESA 75 Rail Slot

RAM 1.5" Double Ball Mount with Backing Plate

2200mAh Battery

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