EPD-230, **EPD-232**



2.9" ePaper Solution Suite

Features

- ARM Cortex-M3 Core Processor
- Supported IEEE 802.15.4 / 2.4 G Networks
- 2.9" ePaper Panel Display
- Great for Low Power Consumption
- Multiple I/O Control with Three Buttons & Three LED
- Supported Temperature Range: 0 ~ 50 °C
- High Performance Integrated System with RTOS
- Supports Over-the-Air Upgrades upgrade (OTA)
- Solution with WISE-3240 Network Coordinator & ARK ePaper Manager Server

Introduction

EPD-230, EPD-232 supports the ultra-low power 2.4GHz RF wireless protocol integrated with 2.9" EPD in an A Sw. Cuttor -M3 processor. The module can support hospital, pharmacy, factory, warehouse and retail applications with optimal power consumption and device management. Your a pi atio is with low data rate requirements can achieve years long battery lifetimes and thousands of device connections.

The Advantech EPD-230, EPD-232 provides multiple interfaces for application control which are highly intrara a with the EPD driver and low power consumption system. EPD-230, EPD-232 can auto-join network groups with the WISE-3240 IoT Router. Data can be easily acquired and trans. m. d. no a different format to communicate with ePaper Manager Server. System integrators can focus on application development and system management.

Specifications

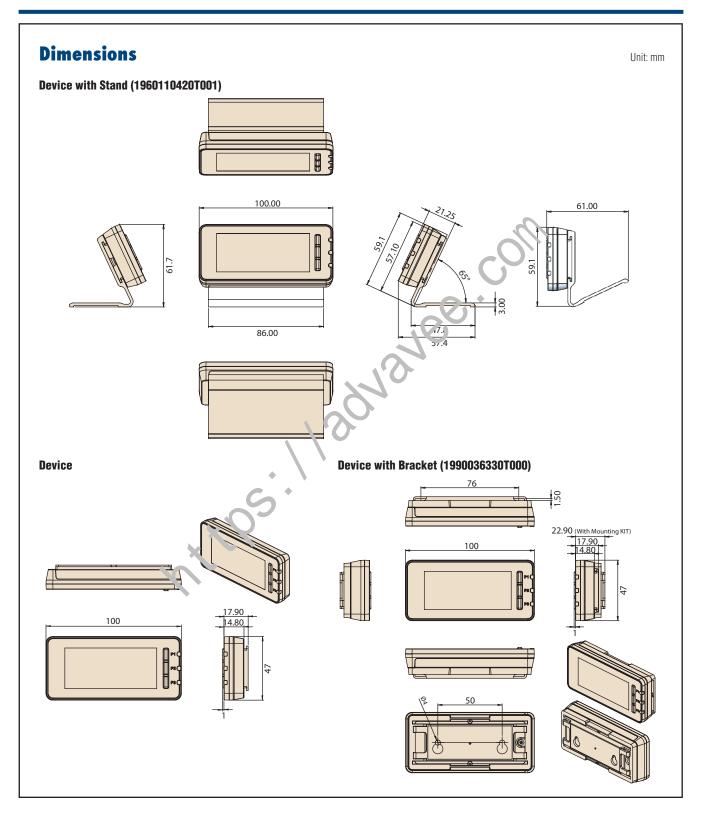
Computing System	MCU	TI 32 -bit ARi 1 Cortex-M3 Processor
Computing System	Memory	RAM 23KB
	Screen Size	⁷ 9 x 36.1 mm
Display	Rresolution	296 × 128 pixels
	Color	PD-230 for Black & White, EPD-232 for Red/Black/White
Ctorogo	Internal	Flash: 128 KB
Storage	External	SPI Flash: 256 KB
	Standard	IEEE 802.15.4
	Frequency Bana	2.4-GHz
	Channe's	11~26
	Channel Scharation	5MHz
Network	Topology	Star network
NELWOIK	Transmit Power	-21dBm~ +5dBm
	Receiver Sensitivity	-100dBm
	RF Data Rate	250 Kbps
	Function	End node
	Antenna	On-board Antenna
Reference Signal Range		15~20m
Interface		LED x3
1111011000		Function Key x3
Power	Battery	CR2450 x4 (2480mAh)
	Operational Temperature	B/W color: 0 ~ 50 °C ,R/B/W color: 0 ~ 40 °C
Environment	Non-Operational Temp.	-25 ~ 60 °C
	Operating Humidity	5 ~ 80% Relative Humidity, non-condensing
Physical Characteristics	Dimensions (W x H)	79.0 x 36.7 mm
	Weight	80g with housing and battery
Operating System		RTOS
Certification	EMC	CE/FCC/NCC
* Note:		

Note

- The channel frequency selection can be supported by further plan.

- EPD Data Report and Wakeup behavior duration can be adjusted by different scenario from RESTful API
- System bundles wireless modules; which need RED compliance

EPD-230,EPD-232



Ordering Information

Model Name	Part No.	Description
EPD-230	EPD-230-001	2.9 black/white panel color ePaper display device solution in 2.4G.
EFD-230	EPD-230-011	2.9 black/white panel color ePaper display device solution in 2.4G for 20pcs package.
EPD-232	EPD-232-001	2.9 red/black/white panel color ePaper display device solution in 2.4G.
EPD-232	EPD-232-011	2.9 red/black/white panel color ePaper display device solution in 2.4G for 20pcs package.

Ubuntu development kit ordering information

	Part No.	Description
EPD device	EPD-230-001 EPD-230-011 EPD-232-001 EPD-232-011	2.9 " Wireless ePaper display device solution in 2.4G
	WISE-3240IOS-41A1E	Wireless EPD 2.4G WiFi Network IoT Router in industrial grade for Furope
	WISE-3240IOS-41A1J	Wireless EPD 2.4G WiFi Network IoT Router in industrial grade full Japan
	WISE-3240IOS-41A1N	Wireless EPD 2.4G WiFi Network IoT Router in industrial grade for North America
Router	WISE-3240IOS-41A1T	Wireless EPD 2.4G WiFi Network IoT Router in industri a grade 12. faiwan
	WISE-3240IOS-41A1C	Wireless EPD 2.4G WiFi Network IoT Router in industria. grad e for China
	WISE-3240IOS-41B1E	Wireless EPD 2.4G WiFi Network IoT Router in commercial grade for Europe
	WISE-3240IOS-41B1T	Wireless EPD 2.4G WiFi Network IoT Route in commercial grade for Taiwan
oDopor monogor	ARK-1123H-EP2A2 for Entry	Ubuntu 18.4/128G SSD/8G RAM and 'une in Caper Manager Software with 500 device licenses
ePaper manager	ARK-2250L-EP1A2 for Enterprise	Ubuntu 18.4/1T HD/16G RAM and Luik in c. aper Manager Software with 500 device licenses

Optional Accessories

	Part No.	Description		
	1760002692-01	4 pcs CR2450 battery		
	1990036330T000	Wall Bracket		
	1990036333T000	Wall bracket Glue		
1960110420T001		Bottom Frame for EPD-230 Liquid WHITE		
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	×Q×			

Packing List

	Mouel Name	Part No.	Description	
	EPD-230	EPD-230-001 EPD-230-011	2.9" Black/White ePaper device with battery	
	EPD-232	EPD-232-001 EPD-232-011	2.9" Red/Black/White ePaper device with battery	

* All Eink Panel inspection criteria refer to E Ink CAS & Inspection standard document.

- * Note: E Ink Recommend condition for storage: Temperature: 20 +-10 degree C Humidity : 60% RH+-10%RH, Non-condensing

* Note: WISE-3240 industrial grade supports wider range of operation temperature and storage temperature. Please request WISE-3240 specification for the reference.