

# Color touch display 3.5" with communications port

Freely configurable widgets

Add pages as required

Modbus

Wall Mount

Non-Volatile memory



### Applications

- HMI in Plantroom, Room, Hospital Theater
- Optional touch for adjusting user values such as Setpoint
- FCU/FAT wall unit

### Features

- High resolution TFT Color display with optional touch
- Display Modbus variables on widgets in either text or graphic format
- Write widget values via Modbus
- Models have different numbers of pages and widgets
- Backlight configurable on Modbus with auto timer
- Optional password on touch widgets
- Auto page flip to bring users attention to information

### Display

High contrast capacitive touch screen with adjustable back light. The wake, sleep brightness and sleep timer are configurable on Modbus. Touch widgets are available on -T models to provide control of Modbus values.

### Operation

Set the personality files using a text editor as per the user manual and download using edgeUP desktop application. The personality files determine everything from the number of pages (multipage models), widgets, widget alignment, widget to Modbus register association and many more unbelievable features. A truly amazing product that will change the way we visualize data from control systems.

Configurable and interactive with a response time that makes the user experience great.

### Specifications eZi-COM-DSP-1

Display	3.5" 480x320 capacitive touch screen Pixel density-165PPI
Communication	Modbus Slave [addr1/9600/8/n/1]Configurable up to 56k
Power Supply	12V DC 200mA
Working Temp	0°C ~50°C, 0~85%RH (Non-condensing)
Storage Temp	-10°C ~60°C
Housing	ABS Black. Optional white.
Dimensions	66h x 129w x 33d (mm)
Protection	IP30
Weight	TBD
Warranty	12 months. Limited to replacement of product

### Termination and wiring

4 way external terminal block for RS485 A/B/12V DC +/-COM

### Downloading personality

USB C. Internal connection. Use the desktop app for downloading personality files and configuration of baud rates etc.

### Models

All models require a license file to enable features listed in the table below. License loaded when ordered with hardware refer to user manual for separate ordering procedure.

Item	T1	T2	T3	D1	D2	D3
Screen	1	3	6	1	3	6
Label A	4	12	24	4	12	24
Label T	6	18	36	6	18	36
Label D	4	12	24	4	12	24
Meter	2	6	12	2	6	12
Bar	4	12	24	4	12	24
LED	4	12	24	4	12	24
Slider	2	6	12	0	0	0
Switch	2	6	12	0	0	0
ButtonT	4	12	24	0	0	0
Spinbox	1	3	6	0	0	0
Arc	1	3	6	0	0	0
<b>Total</b>	<b>35</b>	<b>105</b>	<b>210</b>	<b>25</b>	<b>75</b>	<b>150</b>

eZi-COM-DSP-1	TFT 3.5" configurable color display.
eZi-COM-DSP-D1	eZi-COM license for Display Model 1
eZi-COM-DSP-D2	eZi-COM license for Display Model 2
eZi-COM-DSP-D3	eZi-COM license for Display Model 3
eZi-COM-DSP-T1	eZi-COM license for Touch Model 1
eZi-COM-DSP-T2	eZi-COM license for Touch Model 2
eZi-COM-DSP-T3	eZi-COM license for Touch Model 3
eZi-COM-DSP-UP-Touch	eZi-COM licence upgrade from Display to Touch
eZi-COM-DSP-UP-1	eZi-COM licence upgrade Model by 1 level
eZi-COM-DSP-UP-2	eZi-COM licence upgrade Model by 2 levels

Example order.

eZi-COM-DSP1 display with eZi-COM-DSP-T3 license. Provides a display with up to 6 tabbed screens, touch control and the widget quantities listed in the table above

Widget	Descriptor	Image
Screen	Depending on license, up to 6 tabbed screens	
Label A	Label linked to analog values register with user defined engineering units.	
Label T	Label for fixed text. No register table link.	
Label D	Label linked to a digital or multistage register. Up to 5 stages each with user defined text and colors.	
Meter	Line and Arc meter linked to up to 4 analog values to display up to 4 needles. Configurable scale and range	
Bar	Bar linked to analog value register. Configurable gradient and colors	
LED	LED linked to digital or multistate register. Supports up to 5 states each with configurable color and shadow.	
Slider	Touch and display bar linked to an analog register. The register value is changed if the bard is touched and moved. Configurable colors, gradient, knob and engineering units	
Switch	Touch and display switch linked to a digital register. Value >0 is ON	
ButtonT	Touch button linked to a digital or multistate register. Configurable text and colors.	
Spinbox	A spinbox to set analog values linked to an analog register. Scale and limits are configurable.	
Arc	An arc for changing the associated register. Usefull to align around the outside of a meter to have display and setpoint on the same screen with intuitive operation.	

**Additional Features**

1. Portrait or landscape operation.
2. Selectable Dark or Light theme with the option to have text and background colors follow the theme.
3. The screen can be set to scroll mode. This allows swiping of screen to change tabs.
4. Register control of Backlight in both light and dark modes. Register adjustable backlight timer.
5. Register control of page flip on multi page(tabs) devices.
6. Modbus RTU server mode with selectable baud rates up to 57600. Selectable address allows more than 1 device per bus.
7. User configurable engineering units, labels and states allow for language definition at configuration stage.
8. Password protection can be enabled. Password is user defined 4 digit.
9. All configurations are saved in non-volatile flash using the free desktop app – EdgeUP.
10. All text is referenced from separate lists. The lists are configurable providing language independence.