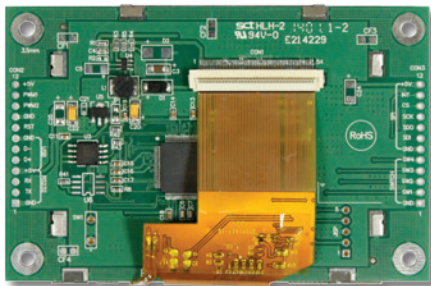# TFT-DISPLAYS / M-SERIES

The **TFT displays of the M-series** of RAYSTAR Optronics meet all requirements for a fully equipped „all-in-one" system. For the transmission of data and control of the displays data and the RS-232, USB and SPI are available, which are controlled via the terminals CON2 and CON3.

On the rear of the display a LED backlight driver, a microcontroller (PIC24), and a SRAM and flash memory are mounted on a board. All modules of the M-series are optional available with a resistive or projective capacitive touch panel.

The programming of these display modules are linked via manufacturer's software. For this purpose, the display is connected to a development board via USB or RS232 to the PC. A suitable development board is included in delivery.

Using the free (screen-editor) software a graphical user interface can be realized within a few minutes.

Per mouse click, the program elements are converted to the C programming language and then they can be implemented directly into the C program of the end application.

BENEFITS:

» Integrated display controller PIC24
» No additional software or development environment required
» Few pins for driving necessary (UART / SPI)
» Full compatibility of the display to one another by single cord
» Automatic code generation

SIZE	MODEL NUMBER	DISPLAY RESOLUTION	BRIGHTNESS [cd/m²]	TYP. BACKLIGHT LIFE [h]	INTERFACE UART / SPI	OPERATING TEMPERATURE [°C]	RESISTIVE	CAPACITIVE TOUCH PANEL (PCAP)
TFT-DISPLAYS, M-SERIES								
3.5"	RFC350M-EIW-DRN	320 x 240	420	50 K	•	-20…+70		
3.5"	RFC350M-EIW-DRS	320 x 240	300	50 K	•	-20…+70	•	
4.3"	RFE430M-EIW-DRN	480 x 272	500	50 K	•	-20…+70		
4.3"	RFE430M-EIW-DRS	480 x 272	350	50 K	•	-20…+70	•	
4.3"	RFE430M-EIW-DRC	480 x 272	400	50 K	•	-20…+70		•
5.7"	RFC570M-EIW-DRN	320 x 240	500	50 K	•	-20…+70		
5.7"	RFC570M-EIW-DRS	320 x 240	350	50 K	•	-20…+70	•	
5.7"	RFC570M-EIW-DRC	320 x 240	400	50 K	•	-20…+70		•

Reserve technical changes!

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