



OPERA 5"



OPERA 7"



OPERA 10"

Advanced Touch Screen User Interface

Project Engineering introduces its new generation of advanced touch screen user interfaces OPERA.

Based on a LINUX operating system architecture, are the perfect devices to develop custom solutions for industry.

Opera are available in different configurations 7" and 10" engineered for panel mounting with protection degree up to IP65. There are also 5", 7" and 10.1" open frame version ready to be integrated in specific applications.

Opera support software applications designed to be portable across different platforms. The advanced hardware can also support audio and video playback for special applications. An internal SD card slot is available for memory expansion.

Main Features:

- Capacitive and resistive touch screen
- Linux operating system based solution
- License free SW
- QT libraries SW
- QT linguistic tool for Multilanguage management
- HTML 5 Web based applications
- Field protocols RS 485, RS 232, CAN.
- Ethernet with PEMS for Project Engineering controllers
- MODBUS for third part controllers
- Compatible with Reach, Project Engineering WEB based monitoring system in Cloud
- SW update with USB stick

	OPERA 5" Open Frame	OPERA 7" Open Frame	OPERA 7" RES	OPERA 10" RES	OPERA 10" CAP	OPERA 10.1" Open Frame	
DISPLAY							
Technology	TFT						
Resolution	WVGA 800x480			SVGA 800x600		WXGA 1280x800	
Dimensions	5"	7"		10.4" (4:3)		10.1" (16:9)	
Colours	16.7M	262k				16.7M	
HW interface	RGB			LVDS			
Backlight	LED						
Touch screen	CAPACITIVE	RESISTIVE			CAPACITIVE		RESISTIVE
Brightness	500	360	320	400		1000	
Front Panel material	Glass Cover Lens	NONE	Laminated Polyester for industrial ambient (other material upon request)		Glass Cover Lens	NONE	

CPU						
Processor	ARM7 IMX6ULL	ARM9 IMX6xxx (Single / Dual Core upon request)				
Clock frequency	800 MHz	800 MHz				
Flash Memory	256 MB	UP TO 1GB				
RAM	UP TO 512MB	UP TO 1GB B				

OTHER FEATURES	
RTC Real time clock	Yes with backup battery
EEPROM	YES

MULTIMEDIALITÀ			
Audio output	Buzzer	Buzzer output or not amplified stereo output (upon request)	Buzzer output

INTERFACE AND CONNECTIVITY						
Ethernet	10/100Base-TX LAN					
USB	2.0 Full-speed Host-Port					
WIFI	NO	YES	NO	NO	YES	
SD card	Internal					
485	2	1	2 x OPTO + 1 (on request)			5
232	NO	NO	1 (on request)			0
CAN	NO	1	1 x OPTO			1

ELECTRICAL DATA			
Power supply	24 Vac/dc ± 20%	10-30 Vdc	24 Vac/dc +- 20
Current/Consumption	0.3A	0,9 A approx	1 A approx
Operating temperature	0÷60°C		-10÷60°C

MECHANICAL DATA						
Dimension (LxWxH) mm	140.7 x 94x4.4	200x105x20	235 x 174 x 70	265 x 212 x 70	265 x 212 x 70	270 x 150 x 70
Front protection class	Open Frame			IP65		Open Frame
Rear protection class	Open Frame			IP20		Open Frame

SOFTWARE	
Operative System	Linux embedded
Graphic libraries	QT 4.8 embedded
Supported protocols	PEMS Modbus, Bacnet, other upon request
Multi Language support	YES with QT linguistic tool
User management	Multi User management, password protected.
Added features	REACH Compatibility



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