

WP50

Compact ARM operator panels to visualize web-based HMI projects



HIGHLIGHTS

- Built-in Chromium browser compatible with HTML5 and configured to operate in "Kiosk mode" for viewing web-based HMI projects
- Integrated UBIQUITY software for IEC 62443-certified remote assistance that allows access to the operator panel and automation devices connected to it through an end-to-end VPN optimized for industrial communications
- Aluminum (ALU) and aluminum True Flat (TF) front panels with resistive touchscreen
- Aluminum and True Flat glass front panels with back-projected capacitive touchscreen (TFM)
- Available with displays from 7" to 18.5" in wide format and 8.4" to 15" in narrow format
- Guaranteed connectivity with Wi-Fi 4 and 4G LTE modem (optional)



chromium **INSIDE**



UBIQUITY **INSIDE**



A ROCKWELL AUTOMATION COMPANY

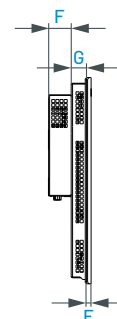
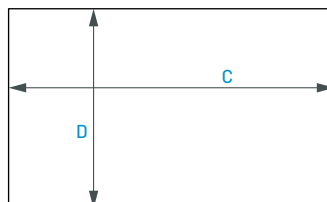
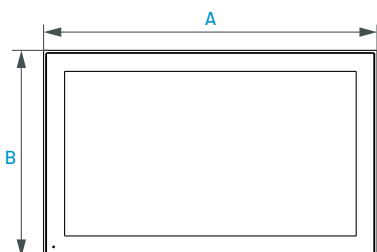
DIMENSIONS

FRONT VIEW

CUT-OUT

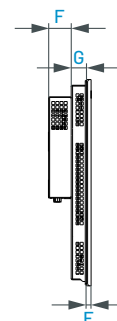
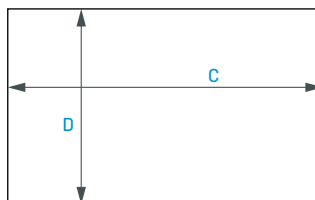
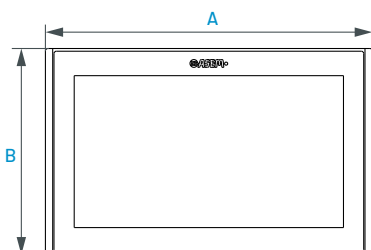
SIDE VIEW

WP50Q - ALU/TFM



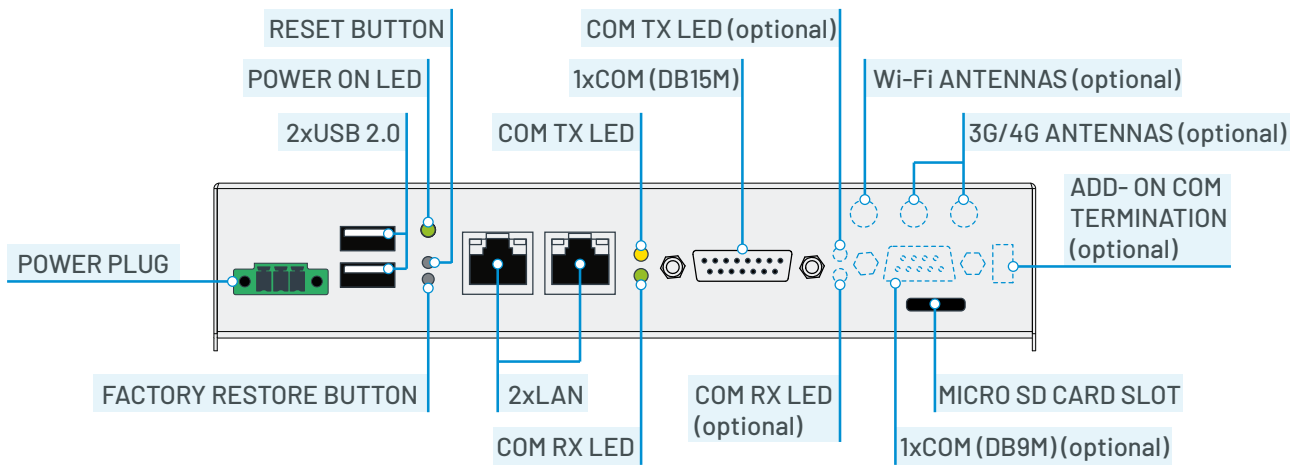
LCD CUT OUT QT	A	B	C	D	E (ALU/TFM)	F (Std/ Wi-Fi 4G)	G
7"W	203	149	196	140	5/4	40/48	-
10,1"W	262.5	181	255	174	4,5/4,5	29/37	19
12,1"W	308	210	300	202	4,5/4,5	29/37	19
15,6"W	395.5	245	388	238	6/6	29/37	25
18,5"W	461	282	454	275	6/6	29/37	25

WP50 - ALU/TF



LCD CUT OUT A/B	A	B	C	D	E	F	G
7"W - A	215	155	204	144	5/4	40/48	-
7"W - B	204	148	197	141	5/4	40/48	-
8,4"	255	190	243	179	5/5	29/37	19
10,1"W	293	201	285	193.5	5/5	29/37	19
10,4"	295	230	283	219	5/5	29/37	19
12,1"	325	260	315	250	5/5	29/37	19
12,1"W	321	222.5	313	215	5/5	29/37	19
15"	390	305	380	295	6/6	29/37	19
15,6"W	420	265	410	255	6/6	29/37	19

I/O SHIELD



TECHNICAL DATA

		WP50Q-ALU	WP50Q-TFM	WP50-ALU	WP50-TF
HMI SOFTWARE	only HMI and LP	UNIQO runtime			
BROWSER	only WP	Chromium with HTML 5 support (kiosk mode)			
CONTROL SOFTWARE	only LP	CODESYS 3.5.x SoftPLC			
supported protocols		EtherCAT Master, MODBUS TCP Master, MODBUS RTU Master			
REMOTE ASSISTANCE SW		UBIQUITY runtime PRO			
O.S. INSTALLED		Linux Yocto			
LED backlight TFT LCD		7" W - 800x480 10.1" W - 1280x800 12.1" W - 1280x800 15.6" W - 1366x768 18.5" - 1366x768		7" W - 800x480 8.4" - 800x600 10.1" W - 1280x800 10.4" - 800x600 12.1" - 800x600 12.1" - 1024x768 12.1" W- 1280x800 15" - 1024x768 15.6" W - 1366x768	
CUT-OUT		QT		A/B	
TOUCHSCREEN		Resistive 4 / 5 wires	P-CAP Multitouch	Resistive 4 / 5 wires	
FRONT PANEL	Material	Aluminum	True Flat Aluminum	Aluminum	True Flat Aluminum
	ASEM Logo	-		Adhesive label	Silk screen printed
PROTECTION GRADE IP	IP rating	IP65 - frontal			
	NEMA rating	UL type 1, 4x (indoor only)		UL type 1, 4x (indoor only) and 12	
CASE	Installation	Panel mounting			
	Material	Zinc-coated skin pass steel			
PROCESSOR (soldered on-board)		NXP® i.MX6 DualLite ARM Cortex® A9 1GHz • integrated GPU			
		NXP® i.MX6 QuadPlus ARM Cortex® A9 1GHz • integrated GPU			
SYSTEM MEMORY RAM		1GB (DDR3L module) 2GB (DDR3L module)			
RETENTIVE MEMORY	only LP	512kB Magnetoresistive RAM			
MASS STORAGE		8GB eMMC pseudo-SLC 1x MicroSD slot on board with external access			
INTERFACES	LAN	2x Gigabit Ethernet (RJ45)			
	USB	2x USB 2.0 rear (Type-A)			
	SERIAL	1x RS232/422/485 (DB15M) compatible with MPI protocol			
ADD-ON INTERFACES	Optional	1x RS485 isolated (DB9M)			
WI-FI	Standard	IEEE 802.11b/g/n • 2.400GHz • Data rate fino a 150Mbps			
	Functionality	Client mode			
	Security	WEP, TKIP, AES, WPA and WPA2			
	Rx Sensitivity	11Mbps: -80dBm@8% • 54Mbps: -70dBm@10% • 130Mbps: 672dBm@10%			
	Antenna	1x RP-SMA-F			
CELLULAR NETWORK	Standard	2G/3G/4G LTE CAT 4 Multi-Band All regions • Data rate up to 50Mbps upload / 150Mbps download			
	Antenna	1x SMA-F connector			
	SIM	1x SIM card socket push-push type			
POWER SUPPLY INPUT	only LP	24VDC (18 ÷ 36VDC) isolated			
		MicroUPS based on supercapacitors for automatic storage of retentive variables			
OPERATING TEMPERATURE		0° ÷ 50°C			
STORAGE TEMPERATURE		-20° ÷ 60°C			
OPERATING/STORAGE RELATIVE HUMIDITY		20% ÷ 90% RH (non-condensing)			
APPROVALS		CE RoHS UKCA cULus Listed ATEX zone 2/22, pending			