

IP Series: Full IP65 Multi Touch Panel PC

*360° protection against
intrusion of dust, water,
oil, or corrosive materials*



Features

- IP65 compliant 6-sided stainless steel chassis
- IP65 waterproof stainless steel connectors
- IP65 rated external power adapter (alternative)

Specially suitable for dusty / humid / oily / corrosive industrial environments



VIPER - IP Series Full IP65 Multi Touch Panel PC

Challenges

For a PC-based automation system installed in some industrial environments such as food processing factories, car washing stations, petroleum plants or pharmaceutical facilities, moisture, grease and dust resistance is an important criterion to ensure high reliability against harsh conditions. IP65 rating is the most commonly used index when an industrialist purchases waterproof industrial PCs.



Solutions

The Viper - IP series is the fully specified IP65 compatible, multi touch panel PC featuring the following design elements that provide a sophisticated human-machine interaction in the most intuitive way.

- **Dustproof / Waterproof full IP65 chassis, connector and power adaptor** not only to prevent dust and water from invading the inner sensitive components but also to allow the device to be washed down
- **Corrosion-proof and anti-oil stainless steel chassis** not only to prevent corrosion generated by acid and alkali but also to facilitate cleaning and maintenance



Applications

	CPU Performance	
	Energy Efficiency	
	Touch Function	
	Dissipation Design	Fanless, External heat sink
	Waterproof Design	IP65 chassis, IP65 connectors, IP65 power adapter (alternative)
	Housing Design	Stainless steel



Foodstuff, Pharmaceuticals



Industrial automation



Petroleum, Chemistry, Petrochemistry



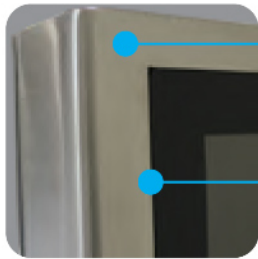
Military

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VIPER - IP Series Full IP65 Multi Touch Panel PC



IP65 compliant 6-sided sealed stainless steel chassis
*to prevent liquid / dust from getting into the housing and
to resist acid- / alkali-based cleaning agents from corroding the device*

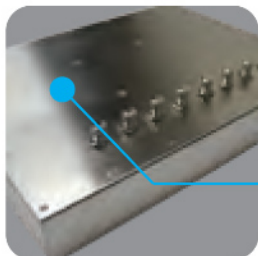
Seamless flat-bezel design between chassis and panel
to decrease water / dust accumulation and to facilitate cleaning / maintenance



IP65 waterproof stainless steel connectors
to prevent liquid from getting into the housing via the cable entry points

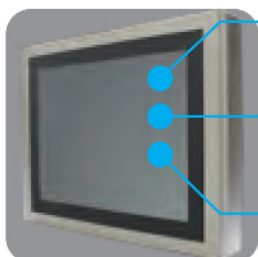
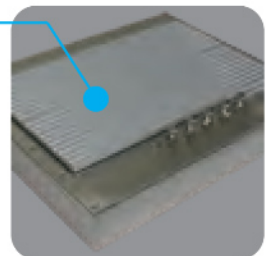


IP65 rated external power adapter (alternative)
*to prevent liquid from getting into the interior of the adapter
from the junction of the shell*



External heat sink (on the rear for IP-AN Series
with Core i5 Turbo up to 2.7GHz CPU & IP-GN
Series only)
*to faster dissipate the heat to keep
excellent CPU performance*

No external heat sink (for IP-AN Series with
Core i5 1.8GHz / Celeron CPU &
IP-2L / -7L / -8L / -9L / -BL / -EN / -FN Series)



7H hardness anti-scratch panel surface
to avoid touch function failure due to scratch

Oil- & water-stain-proof panel surface
to ensure touch sensitivity

Enhanced PCT touch panel
to enable input with glove which is necessary in some applications



RFID sensor (optional)
*to enable RFID technology application, such as logistics,
warehousing, distribution or industrial automation
(identification of workpiece carriers on assembly lines, material
flow control, identification of containers and other receptacles)*

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Specifications

System		I/O ports			
CPU	Intel 4th Gen ULT Core i3 4010U i5 4300, i7 4650. mobile low pwr		RS232	1 DB9	
Memory	2x 204 pin DDR3L, 1333Mhz SODIMM module up tp 16GB		RS2485	n/a	
Hardware Monitor		GBE LAN	2 x 1GBE RJ45		
Watchdog	256 Level watchdog timer		VIDEO	1x HDMI	
Storage		AUDIO	1x Line In/ Microphone in		
HDD	1x SATA 3 2.5" SSD device		Touchscreen		
Expansion		Resistive (R)	n/a		
m-PCIe	x1 mPCIe socket		Capacitive (C)	Projected Capacitive, 4 point touch	
Options		Power			
RS232/422/485	2 via DB9 serial male		DC input (F)	DC 12V input, 3 pin Phoenix	
RFID	internal module		DC input (W)	DC Widerange 9 -24V, 3 pin.	
Display		Options			
Size	15" (15.3')	17" (17.3")	19"	21"	
Standard Res	1024x768	1280x1024	1280x1024	1920x1080	
Widescreen	1366x768	1920x1080	1920x1080		
Brightness	400Cd/m	400Cd/m	250Cd/m	300Cd/m	
Contrast	700:1	1000:1	1000:1	1000:1	
View Angle	160/160	140/170	160/170	170/170	
Colors	16.2M	16.7M	16.7M	16.7M	
Mechanical					
Dims	438x335x63mm	470x390x67mm	521x434x67mm	607x401x67mm	
Heatsink (rear)	10mm	10mm	10mm	10mm	
Mass	11Kg	15Kg	16kg	18kg	
Environment					
Operating Temperature		0 - 50 °C			
Humidity	10 - 90 % non - condensing				
Mounting	Panel mount or 100x100mm VESA				
MTBF	LCD = 50,000Hrs	Processor = Option dependant			
Ordering Info		VIPER-IP/lcd/cpu/power/touch/options			
Part Number	VIPER-IP15xxx	VIPER-IP17xxx	VIPER-IP19xxx	VIPER-IP21xxx	
Intel ® CPU Type	Core ™ i3 4010U	Core ™ i5 4300U	Core ™ i7 4650U	Quad core Atom ™	
CPU Code	i3	i5	i7	A	
Power input	DC 12V only	code (F)	DC 9 - 24V	code (W)	
Touchscreen	Capacitive	(C)	Resistive	(R)	
Options	RS232/433/485	code (485)	.802.11	code (WL)	