

## Flexible I.O. Combination Maximum Rugged Industrial Solutions

**With Wincomm new cable gland for external I.O. design, it could enable the current full IP stainless steel panel PC, WTP series from fixed I.O. to maximum I.O. combination which is ideal to meet versatile industrial requirements and benefits users by cost effective and shorten delivery time.**



Typically, Wincomm design full IP series which designed with stainless steel housing and M12 metal connectors with fixed I.O. combination to extend external I.O. by M12 connectors. Leveraging Wincomm customization design capability, more requirements are growing with various I.O. combinations and Wincomm innovates optional cable gland for external I.O. design with various cable grommets available to suit specific enclosure applications with minimum time to market and thus make it a cost effective solution to users. This new design allowed all range of full IP product series, including WTP-9E series, WTP-9E-W wide temp series, WTP-8D series, WTP-8B series and WTP-8B-W wide temp series, size ranging from 15" to 23.8" to enlarge the use at IIoT solutions with economic benefits.

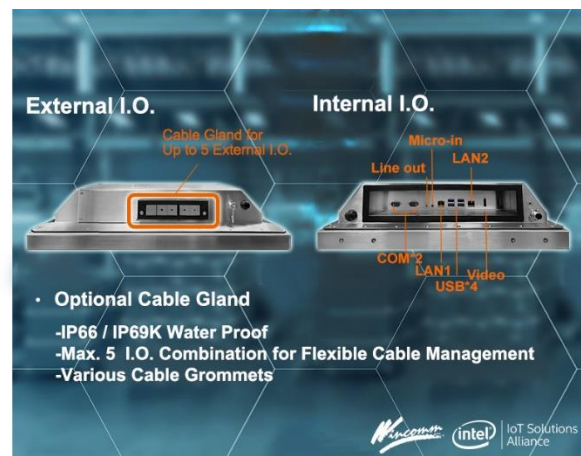


Fig 1. Wincomm new cable gland for external I.O. solution suits for the rapid changed industrial environments with various I.O. combination under IP66/IP69K test proof.

## How to Run Various I.O. Cables Options with Cable Gland Design

For this new design, it would maximum I.O. combination based on various conditions by its flexible cable grommets with up to 5 external I.O. selections. Users could select your suitable product SKU by figure 2, and the selection procedures are listed in figure 2.




Differentiation from Standard M12 Connector to Optional Cable Gland																									
WTP-9E/8B/8D Series	Standard M12 Connector																								
<b>External I/O Interface</b>  USB: 2.0 x 4 LAN: x1 COM: x2	<b>Optional Cable Gland for External I/O</b> Selection Step I: Select 5 External I/O, ex: USB 3.0 x 2, LAN x 1, COM x 2 (more than 5 external I/O is by request)   <table border="1"> <thead> <tr> <th>Internal I.O.</th> <th>WTP-9E Series</th> <th>WTP-8B Series</th> <th>WTP-8D Series</th> </tr> </thead> <tbody> <tr> <td>USB</td> <td>3.0 x 4</td> <td>3.0 x1 / 2.0x3</td> <td>3.0 x2 / 2.0x2</td> </tr> <tr> <td>LAN</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>COM</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Video</td> <td>DP X 2</td> <td>DVI X1</td> <td>DP X 2</td> </tr> <tr> <td>Others</td> <td colspan="3">Line out x 1, Microphone x 1</td> </tr> </tbody> </table>	Internal I.O.	WTP-9E Series	WTP-8B Series	WTP-8D Series	USB	3.0 x 4	3.0 x1 / 2.0x3	3.0 x2 / 2.0x2	LAN	2	2	2	COM	2	2	2	Video	DP X 2	DVI X1	DP X 2	Others	Line out x 1, Microphone x 1		
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<b>External I/O Water Proof Solution</b>	M12 type connector	Selection Step II: Select Suitable Grommets for Your Cable Size - Blank ( No I.O.) is Defaulted - Tree Types of Grommets: 3-4mm, 4-5mm, 5-6mm - To Secure System Passed IP69K Criteria, it would Recommended Proper Grommets Selection upon Your Cable Size Provided.																							
<b>External I/O Extension Cable</b>	Necessary, USB, COM, LAN extension cable	Selection Step III: Not Necessary, Depends on Normal Cable Length Chosen by Customers																							
<b>System Height (mm)</b>	<table border="1"> <thead> <tr> <th>15"</th> <th>19"</th> <th>22"</th> <th>24"</th> </tr> </thead> <tbody> <tr> <td>58</td> <td>64</td> <td>59</td> <td>64</td> </tr> </tbody> </table>	15"	19"	22"	24"	58	64	59	64	<table border="1"> <thead> <tr> <th>15"</th> <th>19"</th> <th>22"</th> <th>24"</th> </tr> </thead> <tbody> <tr> <td colspan="4">105</td> </tr> </tbody> </table>	15"	19"	22"	24"	105										
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Fig 2. The above table shows "Differentiation from Standard M12 Connectors to Optional Cable Gland", which indicates how to choose from WTP-9E66, WTP-8B66 and WTP-8D66 series by steps.

## Passed CE/FCC/VCCI Class B Certification

The optional cable gland for external I.O. design has been proofed to pass CE, FCC, VCCI class B and could sustain IP66/IP69K test criteria in WTP-9E series, WTP-8B series, and WTP-8D series, which results in an upgraded product for industrial, to home, to office, and laboratory usage.

WTP Series with Optional Cable Gland for External I.O.		WTP-9E66 XX						WTP-8D66 XX			WTP-8B66 XX							
Model Name		15	19	22	24	15W	19W	15	19	22	10	15	19	22	24	10W	15W	19W
<b>System CPU</b>		Intel® Kaby Lake						Intel® Apollo Lake			Intel® Bay Trail							
<b>I.O.</b>	<b>Standard M12 Connector</b>	1 x M12 8pin for USB 1/2 1 x M12 8pin for USB 3/4						1 x M12 8pin for USB 1/2 1 x M12 8pin for USB 3/4			1 x M12 8pin for USB 1/2 1 x M12 8pin for USB 3/4							
	<b>Optional Cable Gland</b>	1 x M12 8pin for COM 1/RS-232/422/485 1 x M12 8pin for COM 2/RS-232						1 x M12 8pin for COM 1/RS-232/422/485 1 x M12 8pin for COM 2/RS-232			1 x M12 8pin for COM 1/RS-232/422/485 1 x M12 8pin for COM 2/RS-232							
		1 x M12 8pin LAN						1 x M12 8pin LAN			1 x M12 8pin LAN							
		External I.O. up to 5, select from Internal I.O. Internal I.O.:						External I.O. up to 5, select from Internal I.O. Internal I.O.:			External I.O. up to 5, select from Internal I.O. Internal I.O.:							
		USB 3.0 x 4 LAN x 2 COM x 2 DP x 2 Line out x 1 Microphone x 1						USB 3.0 x 2, 2.0 x 2 LAN x 2 COM x 2 DP x 2 Line out x 1 Microphone x 1			USB 3.0 x 1, 2.0 x 3 LAN x 2 COM x 2 DP x 1 Line out x 1 Microphone x 1							
<b>Operating Temp.</b>		0~40°C			-20~60°C			0~45°C			0~50°C		0~40°C		-20~50°C			

Table 1. The above table listed all WTP series with optional cable gland solution.

## Application Case

Application



Application: Medicine Factory Automation  
Field Site: Japan  
Model: WTP-8B66



► WTP-8B66-15

Features:

- Full IP66/69K Waterproof Protection
- Anti-corrosion
- Metal connector
- EMC Class B




We Commit We Deliver

In this case, it is an IP69K water proof and dust proof HMI control panel PC for medicine factory automation and it has been approved by EMC class B. After competing within other products, it has been selected to install based on its excellent full sealed design and water proof connector to secure the linked equipment in the field.

Application



Application: Fast-food Kitchen  
Field Site: USA  
Model: WTP-9A66, WTP-9E66



► WTP-9A66-15

Features:

- Full IP66/69K Waterproof Protection
- Anti-corrosion
- Metal connector
- Speakers



We Commit We Deliver

Most food processing factories, the control PC is required to be water proof, dust proof and anti-corrosion to make sure the operation keep hygiene and safe. Facing versatile requirements on I.O. combination, this new cable gland could benefit to users. Besides, it has passed EMC class B, friendly to human health in near distance operation.

If you have any product or customization requirements, please contact Wincomm sales (mail: [sales\\_support@wincomm.com.tw](mailto:sales_support@wincomm.com.tw)). For more product information, please visit the Wincomm website at <http://www.wincomm.com.tw/>