

Controllers



Whether it be PC, laptop or PLC, Solartron Metrology offers a range of plug-and-go interfaces for directly connecting an Orbit network to the controller of your choice.



Arriving
2010

	PCI Network card	USB Interface Module (USBIM)	RS232 Interface Module (RS232IM)	Ethernet Interface Module (ETHIM)
Computer Interface				
Bus	PCI	USB 2.0 full speed	RS232 (up to 115.2 kB)	Ethernet
Operating system	Microsoft Windows			
Network Interface				
Signal	RS485			
Protocol	Orbit			
Number of Orbit modules (with external PSIM) ¹	Up to 100	Up to 31	Up to 100	To be confirmed
Number of Orbit modules without external PSIM ²	Up to 10 depending on module type	Up to 4 depending on module type	0	
Baud Rate	187.5kB or 1.5MB		187.5kB	
Measurement Modes supported ³	All modes	Standard/Buffered		
Power Requirement				
Voltage Range (VDC)	4.7 to 5.25			To be confirmed
No Load Current (mA)	250	250	62	
Environmental				
Operating Temp. Range (°C)	0 to +60			To be confirmed
Storage Temp. Range (°C)	-20 to +85			
IP Rating	-	43		
Mechanical & Connections				
Computer connections	PCI card slot	USB socket type A	RS232 port	Ethernet port
Dimensions (mm)	-	65 x 61 x 18 excluding connector (refer to PIE drawings on page 30)		
Weight (g)	89	98g max(Din Rail option)		
Material	-	Nylon and ABS plastic		

¹ 1 PSIM required per channel.

² The specifications quoted are dependant on the power available from the computer in use.

³ Orbit provides three measurement modes. **Standard** where modules are communicated with on an individual basis. Each module is asked for its measurement data by the controller as required. **Buffered** where modules are told by the controller to take a series of measurements and store them in internal module memory. This data is then extracted in one block by the controller when the required measurements have been taken. **Dynamic** where modules take measurements on receipt of a common synchronization pulse sent to the modules from the controller. Each module in turn sends its data back to the controller within a specific time frame. This process continues until the required number of measurements have been taken.