

Orbit 3 USB MK2 Controller



The new Orbit 3 USBIM MK2 provides a controller for all applications from Virtual Com to Ultra High Speed Dynamic capability all without the need to open the PC to insert a card.

When combined with the new Orbit3 .NET Orbit Support pack for Windows the new USBIM is capable of high speed readings up to 3500 per second. It fully supports the original dynamic modes of 4000 rdg/sec - 8 modules, 2000 rdg/sec - 16 modules or 1000 rdgs/sec- 31 modules, but can also be used in Dynamic 2 to provide 2000 rdgs/sec – 30 modules, 1000 rdgs/sec – 60 modules up to 400 rdgs/sec for a maximum of 150 modules.

- | Typical reading rate of 1000 readings per second at Standard Orbit Speed,
- | Up to 3500 readings per second at Orbit Ultra Speed.
- | New Read Burst command capable
- | Now Dynamic capable
- | New Dynamic2 capable (up to 150 Modules)
- | Now High speed Orbit capable (1.5 M Orbit Bus)
- | New Ultraspeed Orbit (2.25 M Orbit Bus speed)
- | Virtual Com Port drivers for using device with customer's own software – gives a typical reading rate of 450 readings per second.
- | Upgradeable firmware (over the USB link with the new 'Orbit Updater' application)
- | Latching USB Connector provides a robust connection for the shop floor

Orbit 3 USB MK2 Controller

Technical Specification

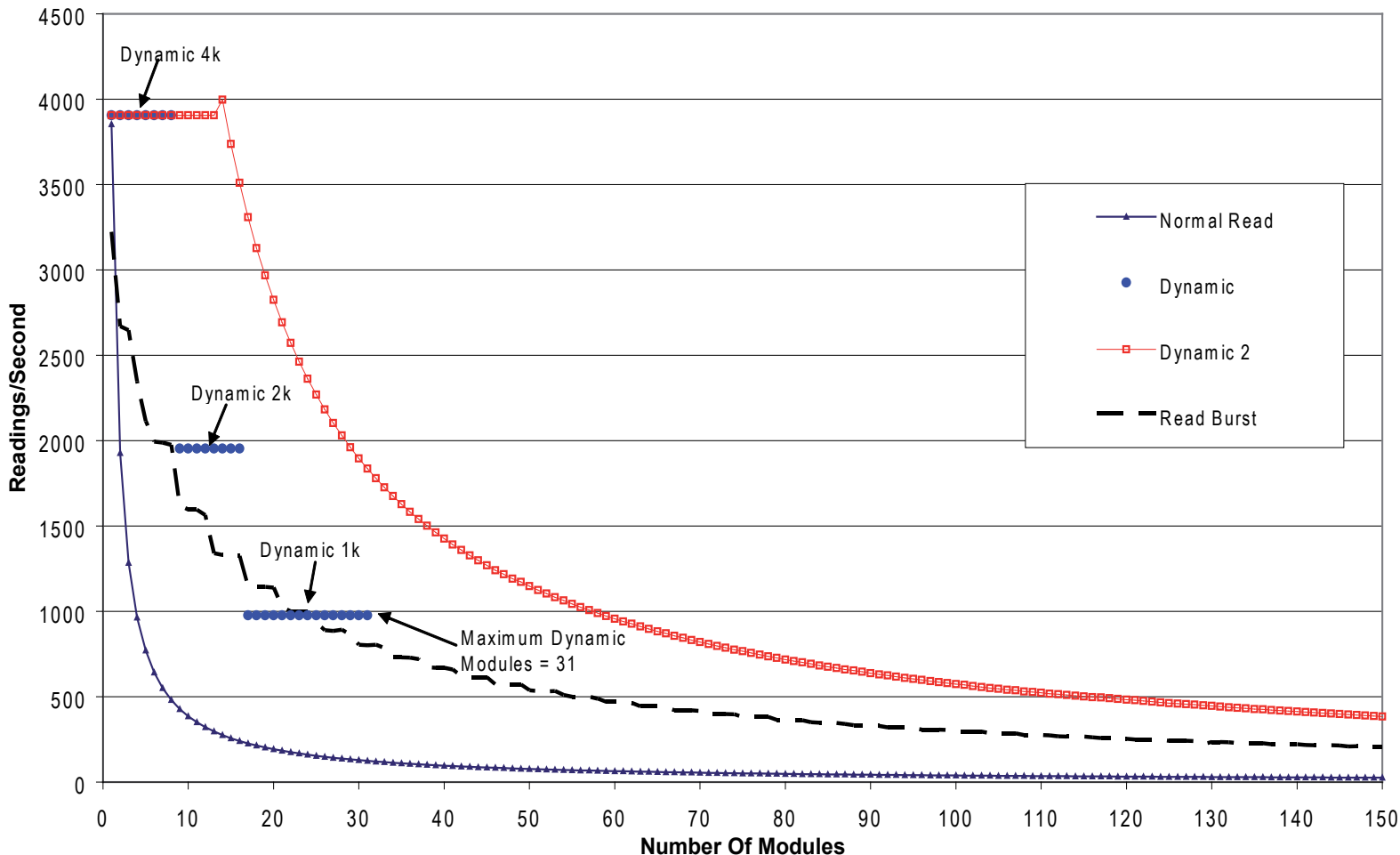
Computer interface	
Bus	USB 2
Operating Systems	Windows XP, Vista, Win7 (32 and 64 bit)
Virtual COM (for use with end user software)	
Network Interface	
Signal	RS485
Protocol	Orbit
Orbit Speeds	Standard 187.5 kB, High 1.5 MB, Ultra Speed 2.25 MB
Performance	
Measurement Modes	Standard, Buffered, Dynamic with New Modes Read Burst and Dynamic 2
Reading Rates	See graph
Number of Orbit Modules (No PSIM)	4
Number of Orbit Modules with external PSIMS	150
Power Requirements	
Voltage Range (VDC)	4.75 to 5.25
No Load Current (mA)	200
Environmental	
Operating Temperature (°C)	0 to +60
Storage Temperature (°C)	-20 to +85
IP Rating	43
CE Marking	yes
Mechanical	
Computer Connections	USB socket type A
Dimensions	Refer to Orbit 3 Catalogue/Website for PIE case drawing
Materials	Nylon and ABS

For use with the original Orbit COM library:

- | Works as the original USBIM part. – no new features except:
 - | Virtual Com Port drivers for using device with customer's own software – gives a typical reading rate of 450 readings per second.
 - | Windows 7, 64 bit operating system compatible

Orbit 3 USB MK2 Controller

Module Reading Rates for Different Orbit Modes



Offices worldwide

Agent and distributor details available at www.solartronmetrology.com

Solartron pursues a policy of continuous development. Specifications in this document may therefore be changed without notice.

Solartron Metrology
Steyning Way
Bognor Regis
West Sussex
PO22 9ST
Tel: +44 (0) 1243 833333
Fax: +44 (0) 1243 833322
Sales.solartronmetrology@ametek.com

Germany
Ametek GmbH
Solartron Metrology Division
Rudolf-Diesel-Strasse 16
40670 Meerbusch
Tel: +49 (0) 2159 9136 500
Fax: +49 (0) 2159 9136 505
vertrieb.solartron@ametek.de

France
Solartron Metrology
Rond-point de l'Espine des Champs
Buroplus - Bat. D
Elancourt 78990
Tel: +33 (0)1 30 68 89 50
Fax: +33 (0)1 30 68 89 59
france.solartronmetrology@ametek.com

China
Ametek Commercial Enterprise
(Shanghai) Co. Ltd
No. 1 Ametek Road
Jiu Ting Economic Developemnt zone
Shanghai, 201615
Tel: +86 21 5763 2509
Fax: +86 21 5688 0969 Ext. 261/262
china.solartronmetrology@ametek.com

USA
915 N.New Hope Road
Suite C,
Gastonia, NC 28054
Tel: +1 800 873 5838
Fax: +1 704 868 8466
usasales.solartronmetrology@ametek.com

India
Ametek Instruments India Private Limited
1st Floor, Left Wing
Prestige Featherlite Tech Park
Plot #148, EPIP II Phase
Whitefield, Bengaluru 560 066
Karnataka, India
Tel: +91 80 6782 3200
Fax: +91 80 6782 3232

