Demonstration Systems



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Scope of Demonstration Boards

- → Platform for basic sensor operation
- Functional demonstration of sensor
- → Data logging of measured values
- PC Software TriBox and Sensor Desktop allows easy access to basic sensor functionality



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Tribox363





- → Demonstrator for SMB363
- Status: available
- → USB connectivity
- → PC Suite: Tribox
- → Features:
 - Analogue voltage output for each axis and multiplexer pin
 - Measure of current consumption
 - Read-out and display acceleration values
 - Data logging on PC



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Tribox365



	TriBox Software					BOS	BOSCH	
Sensor-Mode Normal-Power- Low-Power-	×	512-						
Standby-	-	300-						
2 g- 10 g-	Y	200-						
terrupt Mode	1_	100-						
mode 1 - Write	z	100-						
Hysterese 🗐 0 Threshold 🗐 0	Color Int	-200-						
-	Hyst.	-300-						
	Thres.	-512-						
	+			′-Max ∯511	Y•Min ∄-512	Timebase 1 s/Di	w. 🔻	
Interrupt			×1 0.00	s ×1 0	0.00	1171		
interiopt	Cursor On/Off	Hex Baw data	X2 0.00	\$ X1 0 \$ X1 0	0.00	[Y/2]	Start	

- → Demonstrator for SMB365
- → Status: available
- → USB connectivity
- → PC Suite: Tribox
- → Features:
 - Read-out and display acceleration values
 - Data logging on PC
 - Configure and display of on-chip interrupt function



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Tribox380





- → Demonstrator for SMB380
- → Status: available in 02/07
- → USB connectivity
- → PC Suite: Evaluation Desktop
- → Features:
 - Read-out and display acceleration values
 - Data logging
 - Configure and display of on-chip interrupt function
 - Self Wake Up function
 - Measure current consumption
 - Firmware upgrade via USB



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Bluebox V1.01



- Demonstrator for SMB365 and SMD500
- → Status: available
- → USB and Bluetooth connectivity
- → PC Suite: Sensor Desktop
- → Features:
 - SMB365
 - Read-out and display acceleration values
 - Data logging
 - Configure and display of on-chip interrupt function
 - SMD500
 - Read-out and display pressure and temperature
 - Convert into altitude information
 - Data logging



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Bluebox V1.1



	Desktop			by Bosch Sensorted
	Cockpit	Altimeter		Accelerometer
Acceleration 0000 9 0000 9 0000 9 4 0000 9 4 0000 9 4 0000 9 9 4 0 000 9 9 4 0 000 9 9 4 0 000 9 9 4 0 000 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2.0- 1.2- 0.4- -0.4- -1.2- -2.0-	ILD Min Mex	nperature 10 20 10 10 10 10 10 10 10 10 10 1	40.0- 40.0- 9 20.0- 6.0- - 20.8-
Alfitude a.0 m Min \$-100 m Max\$1000 m meter	100.0 780.0 900.0 1200- 1200-	ja.or Min Max	ssure 1900 HPa 2900 HPa 21100 HPa HPa V	1000- 1000- 1000- 980- 980- 980- 980-
				<u>Ser</u> See

- Demonstrator for SMB365, SMD500 and SMG300
- → Status: available
- → USB and Bluetooth connectivity
- PC Suite: Sensor Desktop
- → Features:
 - SMB365
 - Read-out and display acceleration values
 - Data logging
 - Configure and display of on-chip interrupt function
 - SMD500
 - Read-out and display pressure and temperature
 - Convert into altitude information
 - Data logging
 - SMG300
 - Read-out and display yaw-rate
 - Data logging



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Evaluation Systems



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Scope of Evaluation Board

- Platform for detailed sensor evaluation
- Development purposes
- Extensive measurements on power supply and all sensor interfaces
- → Interfacing to existing customer platforms



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Evaluation Board Features



SD Card slot

Evaluation Desktop

Engineering Playground

Socket for Shuttle Board





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Flexible PC

connectivity

power supply

and

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Evaluation Board Feature List

- → USB and Serial Port connectivity
- → USB powered, wall wart or external power supply
- Internal or external clock source
- Access to all supply, communication buses and digital / analogue pins
- Engineering Playground for external components and connectors
- Buttons and LEDs for interactive control
- → SD Card Slot for stand alone operation
- PC Software Evaluation Desktop allows detailed access to all sensor resources
- → Evaluation Board firmware can be upgraded via USB or Serial Port



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Evaluation Board and Shuttle Boards





- Status
 - Available:
 - Evaluation Board
 - Shuttle Board SMB380
 - Shuttle Board SMG300
 - Planned
 - Shuttle Board SMB363 (02/07)
 - Shuttle Board SMB365 (02/07)
 - Shuttle Board SMD500 (02/07)
 - Shuttle Board Module SMB380 and SMG300 (t.b.d.)
 - Shuttle Board Module SMB380 and SMD500 (t.b.d.)



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