


BEANDEVICE® 2.4GHZ AX-3D

BEANDEVICE® 2.4GHZ AX-3D XRange

Main features	Reference	BND-2.4GHZ-AX-3D-2G-RB	BND-2.4GHZ-AX-3D-10G-RB	BND-2.4GHZ-AX-3D-2G-XR-RB-SCM	BND-2.4GHZ-AX-3D-10G-XR-RB-SCM	BND-2.4GHZ-AX-3D-2G-XR-RB-MM	BND-2.4GHZ-AX-3D-10G-XR-RB-MM
Measurement Range		±2g	±10g	±2g	±10g	±2g	±10g
Sensor Technology		Tri-axial MEMS accelerometer					
Mounting option		Adhesive Mounting		Screw Mounting		Magnetic Mounting	
Applications		Vibration Monitoring		High-accuracy Vibration Monitoring			
Spectral noise density@ BW 10Hz		45µg/√Hz	100µg/√Hz	45µg/√Hz	100µg/√Hz	45µg/√Hz	100µg/√Hz
Max. wireless Range (L.O.S. and N.L.O.S.)		High Gain Antenna : 400-500m (L.O.S), 60-120m (N.L.O.S.) / Integrated Radome Antenna : 200-300m (L.O.S), 30-60m (N.L.O.S.)					
Maxi. sampling rate per axis (SPS—sample per second)		1000 SPS		1000 SPS			
Available Measurement mode		Low Duty Cycle 1s to 24h ,Streaming					
Data Logger Size		1 million logs		8 million logs			
Internal Battery		2 Ah Lithium-Polymer battery		2 Ah Lithium-Polymer battery			
Power supply options		External wall plug-in power supply (12V) with M8 Connector (Ref: PWR-M8-12V)					
Casing		Waterproof IP67 aluminum enclosure Dimensions in mm (LxWxH):80x55x36, Weight : 155g		Waterproof IP67 aluminum enclosure Dimensions in mm (LxWxH):100 x 71 x 38, Weight : 225g (screw mounting), 252g (magnetic mounting)			

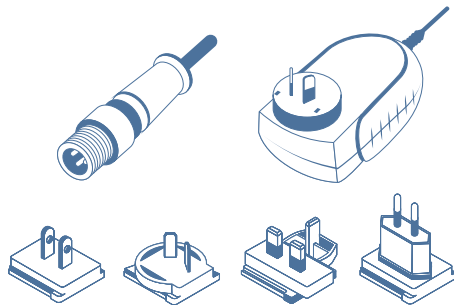

BEANDEVICE® 2.4GHZ AX-3DS

Main features	Reference	BND-2.4GHZ-AX-3DS-8G-RB	BND-2.4GHZ-AX-3DS-24G-RB	BND-2.4GHZ-AX-3DS-8G-RB-SCM	BND-2.4GHZ-AX-3DS-24G-SCM	BND-2.4GHZ-AX-3DS-8G-RB-MM	BND-2.4GHZ-AX-3DS-24G-RB-MM
Measurement Range		±2/4/8g	±6/12/24g	±2/4/8g	±6/12/24g	±2/4/8g	±6/12/24g
Sensor Technology		Tri-axial MEMS accelerometer					
Mounting option		Adhesive Mounting		Screw Mounting		Magnetic Mounting	
Applications		Shock, Impact and vibration monitoring					
Spectral noise density@ BW 10Hz		118 µg/√Hz	250 µg/√Hz	118 µg/√Hz	250 µg/√Hz	118 µg/√Hz	250 µg/√Hz
Max. wireless Range (L.O.S. and N.L.O.S.)		High Gain Antenna : 400-500m (L.O.S), 60-120m (N.L.O.S.) / Integrated Radome Antenna : 200-300m (L.O.S), 30-60m (N.L.O.S.)					
Maxi. sampling rate per axis (SPS—sample per second)		1000 SPS		1000 SPS			
Available Measurement mode		Low Duty Cycle 1s to 24h, Smart Shock Detection (SSD), Streaming					
Data Logger Size		1 million logs					
Internal Battery		2 Ah Lithium-Polymer battery		2 Ah Lithium-Polymer battery			
Power supply options		External wall plug-in power supply (12V) with M8 Connector (Ref: PWR-M8-12V)					
Casing		Waterproof IP67 aluminum enclosure, Dimensions in mm (LxWxH) : 80x55x36, Weight : 155g					



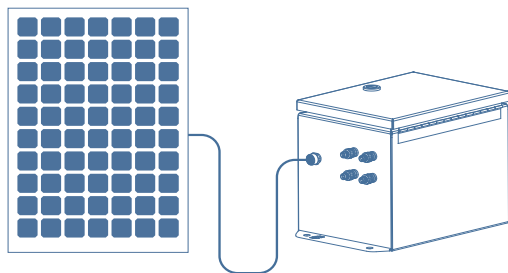
BEANDEVICE® 2.4GHZ AX-3D-SR

Main features	Reference	BND-2.4GHZ-AX-3D-SR-MR-PS-MO
Measurement Range		1.2T :tri-axis Low noise vibration sensor $\pm 1.2g/\pm 2.4g$
Sensor Tech.		Tri-axis MEMS Accelerometer
Mounting option		Screw Mounting
Sensor Resolution		0.167 mg range $\pm 1.2g$ / 0.333 mg range $\pm 2.4g$
Noise density		20 $\mu g/VHz$ for $\pm 1.2G$ measurement range 32 $\mu g/VHz$ for $\pm 2.4G$ measurement range
Sensor precision (full scale, @ 25°C, Static Measurement Mode every 2s)		$\pm 1.1mg$ for $\pm 1.2g$ range $\pm 1.8mg$ for $\pm 2.4g$ range
Offset LifeTime Drift (@25°C)		$\pm 4mg$
Sensitivity temperature dependency (temperature range -25°C to +85°C)		$\pm 0.1\%$
Sensor frequency Response (-3 dB)		DC to 40 Hz for $\pm 1.2g$ measurement range DC to 70 Hz for $\pm 1.2g$ measurement range
Casing		Waterproof IP67 aluminum enclosure , Dimensions in mm (LxWxH): 100 x 71 x 38 , Weight : 225g (screw mounting), 252g (magnetic mounting)



External Power Supply

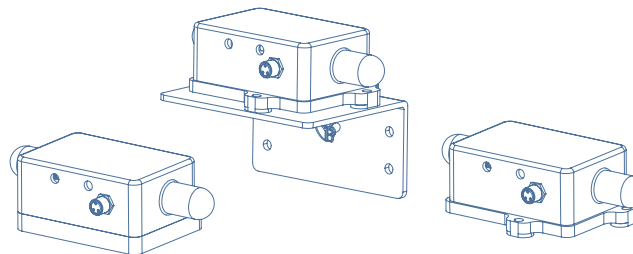
Wall plug-in, Switchmode power Supply 12V @ 1,25A with sealed
M8 Plug (IP67/Nema 6) Ref : M8-PWR-12V



Solar Panel Kit (14AH)

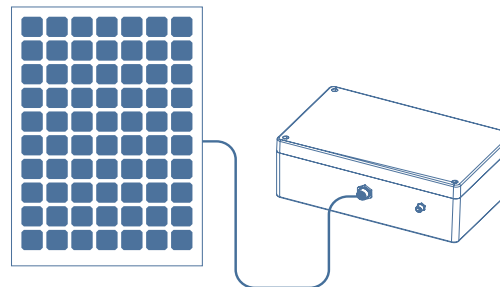
X-Solar 14ah | Solar Panel with Solar Charging Controller
Ref: X-SOL-14AH-SLP-VOUT-CL

[More info](#)



Mechanical Mounting Options

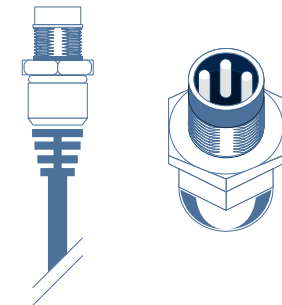
- 90° Bracket for BeanDevice (Xrange smartsensor) with 4 x M5 screws + Locknut
Ref: SMART-BRACK-MNT
- Magnetic Mounting Lid



Solar Panel Kit (7AH)

X-Solar 7ah | Solar Panel with Solar Charging Controller
Ref: X-SOL-7AH-SLP-VOUT-CL

[More info](#)



M8 extension cable for external power supply

Molded cable with M8-3pins male plug
Material: PVC with shield protection
IP Rating : IP67 | Nema 6
Cable length : 2 meters , Ref: CBL-M8-2M
Cable length : 5 meters, Ref: CBL-M8-5M
Cable length : 10 meters, Ref: CBL-M8-10M



Calibration Certificate

Calibration certificate provided by Beanair GmbH
A static calibration method is used on a granite surface plate DIN876
Ref : CERT-CAL-SMART