

PRELIMINARY DATASHEET

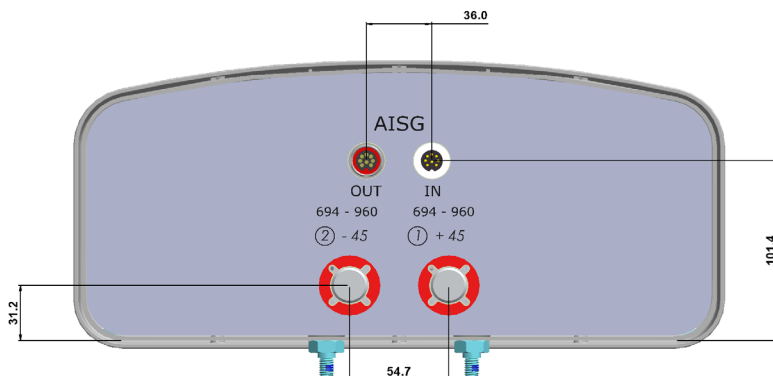
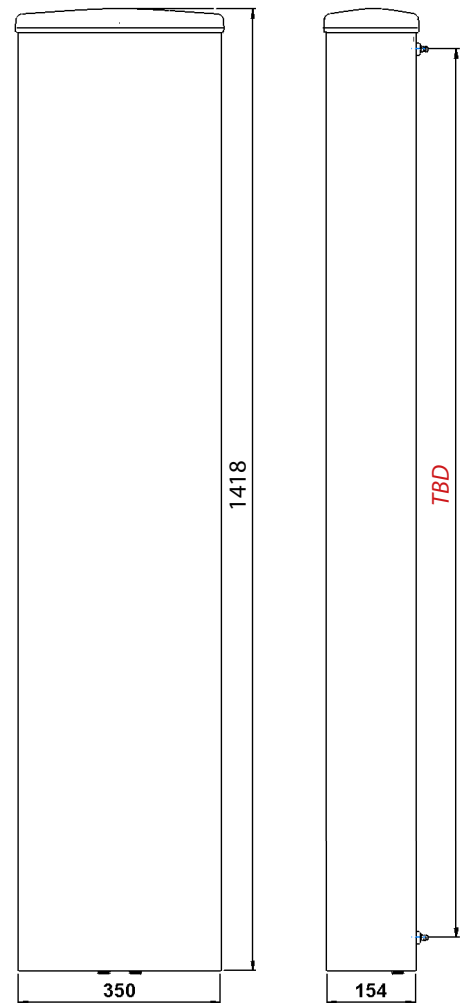
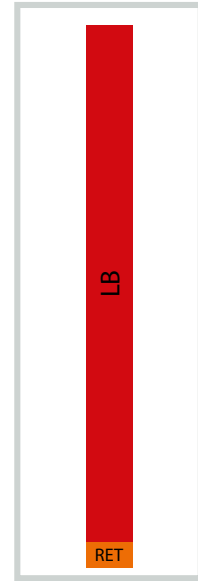
Filtronic Next Generation Base Station Antennas

- Innovative Ultra Wide Band Slotted Disc Antenna Technology.
- High Gain Over An Extended Tilt Range.
- Fully Integrated Remote Electrical Tilt, AISG Compatible.
- Supports MIMO: 2x2 on Low Band.

LB	
Frequency Range	694-960
Gain Over All Tilts [dBi]	14.5
Polarization	X
Azimuth Beamwidth	65°
Electrical Downtilt Range	2-16°
Ports Per Band	2

Specifications and Layouts

MECHANICAL SPECIFICATIONS	
Antenna Dimensions: Length, Width, Depth [mm]	1418 x 350 x 154
Net Weight (Antenna) [kg]	18
Connector Type	4.3-10 Female
Connector Quantity	2
Connector Position	Bottom
Windload, Calculation [km/h]	150
Windload, Maximum [N]	662
Windload, Frontal [N]	529
Windload, Lateral [N]	109
Survival Wind Speed [km/h]	200
Radome Material	GRP
Radome Color [RAL]	7035 (Light Gray)
Product Environmental Compliance	RoHS
Mechanical Distance Between Mounting Points - Antenna [mm]	TBD
Lightning Protection	DC Ground
REMOTE ELECTRICAL TILT (RET) INFORMATION	
Type	Integrated, Non-Removable
Power Input	10 - 30V DC
Protocol	3GPP/AISG2.0
RET Interface	8-Pin DIN
RET Interface (Quantity)	2 (1 male + 1 female)



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ELECTRICAL SPECIFICATIONS		LB		
Frequency Range [MHz]		694-790	790-862	880-960
Gain, Average [dBi]	Min Tilt	14.3	14.5	15.0
	Mid Tilt	14.5	14.7	15.2
	Max Tilt	14.1	14.3	14.8
Gain, Over All Tilts [dBi]		14.0 ±0.5	14.5 ±0.5	15.0 ±0.5
Azimuth Beamwidth [°]		70.0 ±5.0	68.0 ±5.0	66.0 ±5.0
Elevation Beamwidth [°]		14.5 ±0.5	14.0 ±0.5	13.5 ±0.5
Electrical Downtilt [°]		2-16		
Elevation Downtilt Deviation [°]		0.5	0.5	0.5
Front-to-Back Ratio, Total Power, ±30° [dB]		25	25	25
Cross Polar Discrimination Over Sector [dB]		10	10	10
First Upper Side Lobe Suppression [dB]		17	17	17
Upper Side Lobe Suppression [dB]		15	15	15
Polarization [°]		±45		
Impedance [Ω]		50		
VSWR		< 1.5:1		
Return Loss [dB]		< -14.0		
Cross Polar Isolation [dB]		30		
Passive Intermodulation [dBc]		< -153		
Maximum Effective Power Per Port [W]		350		

PRODUCT VARIANT

Single RET Firmware Configuration	P6BSSU01-V1-Px
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SHIPPING VARIANT

Packing Size: Length, Width, Depth [mm]	2280 x 500 x 300	
No Bracket: Shipping Weight [kg], P/N	22	P6BTSU01-V1-P1
Fixed Bracket: Shipping Weight [kg], P/N	25	P6BTSU01-V1-P2
Tilt Bracket: Shipping Weight [kg], P/N	27	P6BTSU01-V1-P3

ENVIRONMENTAL COMPLIANCE

ETSI EN300019-1-1 for Storage	Class 1.2
ETSI EN300019-1-2 for Transportation	Class 2.3
ETSI EN300019-1-4 for Environmental Conditions	Class 4.1E
Cold Temperature Survival [°C]	-40
Hot Temperature Survival [°C]	60

Network planning files, RET configurations files and datasheet in NGMN XML formats are available on request by email to fwlsales@filtronic.com.

Filtronic follows the definitions and recommendations per NGMN P-Basta version 9.6 (www.ngmn.org) within parameters shown on this datasheet.

All specifications are subject to change without notice. Visit www.filtronic.com for the most current datasheets.

Contact Us

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