



MasterPoint S2

The Beel Technologies MasterPoint S2 SSR monitor provides continuous verification of integrity, accuracy, phase and azimuth alignment of secondary surveillance radars and includes the following features:

- Single or dual channel version
- Automatic switchover (dual channel only)
- Operation in modes 3/A, C and S Level 2
- Fully solid state
- Modular construction
- Directional antenna
- Integral 50 dB attenuator
- Low lifetime cost

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- Indoor 19 inch rack mounting
- Mode S features:
 - Full level 2 plus datalink
 - Meets European mandate for Elementary Surveillance
 - Handles Intermode & Formats 0,4,5,11,20,21
 - Flight ID on front panel

SPECIFICATIONS

Part Numbers :	31132 – Single Channel	32162 – Dual Channel		
Transmitter		Dimensions (L x W x H)		
Transmit Frequency	1090 ± 1 MHz	Single channel (3U)	463 x 484 x 13	84 mm
Transmit Power	125 Watts peak (minimum)	Dual channel (6U)	563 x 484 x 268 mm	
	500 Watts peak (maximum)	Antenna	457 x 584 x 17	78 mm
Receiver		Weight	31132.000	32162.000
Center Frequency	1030 ± 0.5 MHz	SSR Monitor	11 kg	18 kg
Sensitivity	-74dBm ±3dB	Antenna	4.5 kg	
Parameters		Reliability	31132.000	32162.000
Interrogation Modes	3/A ,C, S Level 2	MTBF (hours)	30,000	56,000
Altitude	0-62000 ft in 1000-ft steps	MTTR (minutes)	24	30
Range Delay	0.3-300 NM in 0.1 NM steps			
Antenna		Environmental		
Frequency Range	1020 to 1100 MHz	Operating Temperature	0° C to + 40° C -40° C to + 65° C	
Construction	Full wave backfire	Storage		
Impedance	50 Ohms	Relative Humidity	Up to 90% , no	
Gain	12.5 ± 0.5 dBi	Altitude, Operating	Up to 3,000 m	
_		Altitude, Non-Operating	Up to 5,000 m	
Power		Weather, Antenna	Weather, Antenna Up to 100% humidity	
AC Input	86-264V AC	Wind 158 km/hr with drivin		•
Fraguanay	(24V DC optional) 47-63Hz		rain or 4 cm of	
Frequency Power consumption	60 watts (31132)		Up to 240 km/l not operating.	
	100 watts (32162)		not operating.	



MasterPoint S2 Options

Option Number	Description	
000	Standard configuration Mode S Level 2 test transponder	
00E	LCD touch screen and remote control via embedded web browser	
040	Uninterruptible Power Supply (UPS) unit provides continuous AC power in the event of short duration power loss	
071	Short depth 19" rack mount chassis, ground bit set 24V DC power input, antenna not included.	
075	Short depth 19" rack mount chassis, ground bit set 100-250V AC 50/60 Hz input, antenna not included.	
080	BITE reporting through Mode C replies (priority encoded altitude increases)	
100	Support for Mode 1 & 2 replies in accordance with the DOD AIM565- 1000B	
B00	Mode B APM (Antenna Pattern Monitoring) support – uses a Mode B interrogation pattern to remotely enable Antenna Pattern Monitoring mode	

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