



Single Channel Digital



Dual Channel Mechanical

PrimePoint 3AC

The Beel Technologies PrimePoint 3AC 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)
- Digital controls
- Operation in modes 3/A, C
- Fully solid state
- Modular construction
- Directional antenna
- Integral 50 dB attenuator
- Low lifetime cost
- Indoor 19 inch 3U or 6U rack mount

SPECIFICATIONS

Part Numbers : 31136 - Single channel

32166 - Dual channel

Transmitter

Transmit Frequency 1090 ± 1 MHz
 Transmit Power 125 Watts peak (minimum)
 200 Watts nominal

Dimensions (L x W x H)

Single channel (3U) 463 x 484 x 134 mm
 Dual channel (6U) 563 x 484 x 268 mm
 Antenna 457 x 584 x 178 mm

Receiver

Center Frequency 1030 ± 0.5 MHz
 Sensitivity -74dBm ±3dB

Weight

	31136	32166
SSR Monitor	9 kg	17 kg
Antenna	4.5 kg	

Parameters

Interrogation Modes 3/A ,C
 Altitude 0-62000 ft in 1000-ft steps
 Range Delay 0.3-300 NM in 0.1 NM steps

Reliability

	31136	32166
MTBF (hours)	30,000	55,000
MTTR (minutes)	24	30

Antenna

Frequency Range 1020 to 1100 MHz
 Construction Full wave backfire
 Impedance 50 Ohms
 Gain 12.5 ± 0.5 dBi

Environmental

Operating Temperature 0° C to + 40° C
 Storage -40° C to + 65° C
 Relative Humidity Up to 90% , non-condensing
 Altitude, Operating Up to 3,000 m
 Altitude, Non-Operating Up to 5,000 m
 Weather, Antenna Up to 100% humidity;
 Wind: 158 km/hr with driving rain or 4 cm of ice loading.
 Up to 240 km/hr wind while not operating.

Power

AC Input 86-264V AC
 (24VDC optional)
 Frequency 47-63Hz
 Power consumption 40 watts (31136)
 60 watts (32166)

PrimePoint 3AC Options

Option Number	Description
000	Standard configuration Mode 3/A, C test transponder
00E	LCD touch screen and remote control of Mode C, range delay over TCP/IP via embedded web server, and remote control of active channel (in dual channel units only)
030	Remote operation with RS232 connection and custom software to set Mode C, Range configuration and active channel (in dual channel units only)
040	Uninterruptible Power Supply (UPS) unit provides continuous AC power in the event of short duration power loss (separate commercial grade unit)
080	BITE reporting through Mode C replies (priority encoded altitude increases indicate diagnostic information)

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