

View Online at <https://aerobasegroup.com/nsn/5865-01-603-3028>

End Application:

Airborne sensor systems

Unpackaged Unit Width:

48.000 inches

Unpackaged Unit Height:

35.250 inches

Joint Electronics Type Designation System Item Name:

Target acquisition system

Joint Electronics Type Designation System Item Type Number:

An/zpy-1a

Unpackaged Unit Weight:

67.2 pounds

Special Features:

Technical characteristics: center frequency 16.7 ghz (ku-band) rf bandwidth available 1200 mhz perk generated rf power 64 watts duty factor 30% antenna aperture 3.22 x 16.512 inches beamwidth (az x el @ el scan = 0 degrees) 2.2 degrees x 12.8 degrees antenna directivity broadside (uniform tx) 30.7 db antenna directivity broadside (tapered rx) 29.9 db azimuth gimbal steering mechanical +/-200 degrees elevation steering electronic +/-45 degrees elevation offset mechanical 0-30 degrees (from av) rf losses excluding radome (two way) 1.4 db receiver noise figure at lna 5.8 db assumed radome loss (two way) 1.5db

Functional Description:

The primary role of the radar is to provide wide area coverage for situational awareness that cannot be provided by eo/ir sensors with a much narrower field of view. Its is expected that radar data products (gmti tracks, sar images) will not be used to select targets for servicing without confirmation from other sources - eyes on the ground or an eo/ir image. The radar is used to cue the operator where to look with imaging assets. The radar system will be deployed as a brigade-level asset and is typically used for tactical rather than strategic reconnaissance. Importantly, the likely system operators are not trained intelligence analysts with specific skills in interpreting radar products (and sar imagery in particular). Instead, the operators are soldiers with the need to establish immediate situational awareness - what's happening around me, what are the threats.

Relationship To Similar Equipment:

5865-01-566-4885, an/zpy-1 is a prior version to 5865-01-603-3028, an/zpy-1a. Both systems are integrated onto the same platform and perform the same misson, only an/zpy-1a is the extended range (er) version of the an/zpy-1

Supplementary Features:

Dimension: 32.500 in. depth // operating power requirement: 28vdc

Shelf Life:

N/a

Unit Of Measure:

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Demilitarization:

Yes - demil/mli

Fiig:

A23800