Septentrio
satellite navigation

ChokeRing MC: GPS/GLONASS/GALILEO L-Band

ChokeRing MC is a high precision geodetic multi-frequency multi-constellation choke ring antenna for use with the PolaRx family of high performance multiple-frequency GNSS receivers. This high-gain antenna incorporates low-noise amplifiers, powerful filters for out-of-band interference rejection combined with Superior multipath rejection and a high phase centre stability. ChokeRing MC is a competitive alternative for Dorne & Margolin based antennas and designed for high-end applications and reference station operations. Built into a sealed radome allows it for all weather use.

PERFORMANCE

Frequency	1525 – 1615 MHz (GPS L1- GLO L1 - L-Band) 1164 – 1260 MHz (GPS L2 - GLO L2 GPS L5 - GAL E5a - E5b)
Polarization	RHCP
Axial Ratio	3dB max
Radiation Coverage	
θ = 0°	6.0 dBic
0° < θ < 75°	-2.0 dBic
75° ≤ θ < 80°	-3.0 dBic
80° ≤ θ < 85°	-4.0 dBic
θ = 90°	-5.0 dBic
Amplifier	
Gain	39 ± 2 dB
Noise Figure	2.6 dB max
Input Voltage	+ 4.2 to +15 VDC
Current	65 mA (typ)
Power handling	1W
Impedance	50 Ω
VSWR	≤ 2.0:1

PHYSICAL AND ENVIRONMENTAL

Finish	Weatherable polymer
Weight	≈ 4.4 Kg
Diameter	376 mm
Connector	TNCF
Operating Temperature	-55°C to +85°C
Designed to	DO-160D

OTHER PRODUCTS

AsteRx1 - Compact single-frequency GNSS receiver platform, offering top-quality GPS and Galileo code and carrier phase data and single frequency positioning (including GPS DGPS and L1-RTK) at up to 50 Hz.

AsteRx2e - Compact dual-frequency GPS/GLONASS receiver platform, offering top-quality GPS code and carrier phase data and dual-frequency positioning (including DGPS and L1/L2-RTK) at up to 25 Hz.

AsteRx3 - Compact multi-frequency GPS/GLONASS/Galileo COMPAS-ready receiver platform, offering cm-level GPS/GLONASS/GALILEO multi-frequency positioning (including DGPS and L1/L2-RTK) at up to 25 Hz.

AsteRx2eH - A unique single-board dual-frequency multi-antenna GPS/GLONASS receiver in a waterproof aluminum housing, that can be connected to 2 antennas for various machine control, heading and other multi-antenna applications.

AsteRxi - IMU assisted Compact Dual-frequency GNSS receiver platform, offering a 50Hz RTK position based on integrated IMU and GNSS measurements. In addition attitude information such as heading, pitch and roll are provided even in shadowed environments where conventional GNSS receivers fail.

PolaRx3e/3eG/3eTR - A family of versatile high-accuracy dualfrequency GNSS receivers for precise positioning and navigation applications. Next to high-quality GPS measurements, it provides GLONASS dual-frequency data as well as modernized GPS (L2C). PolaRx3eG provides access to the new and upcoming Galileo signals whereas PoalRx3eTR is a dedicated GPS/GLONASS/GALILEO Timing/Reference receiver.

PolaNt* - A lightweight precise positioning and survey single or dual-frequency GPS or GPS/GLONASS antenna for use with the PolaRx family.

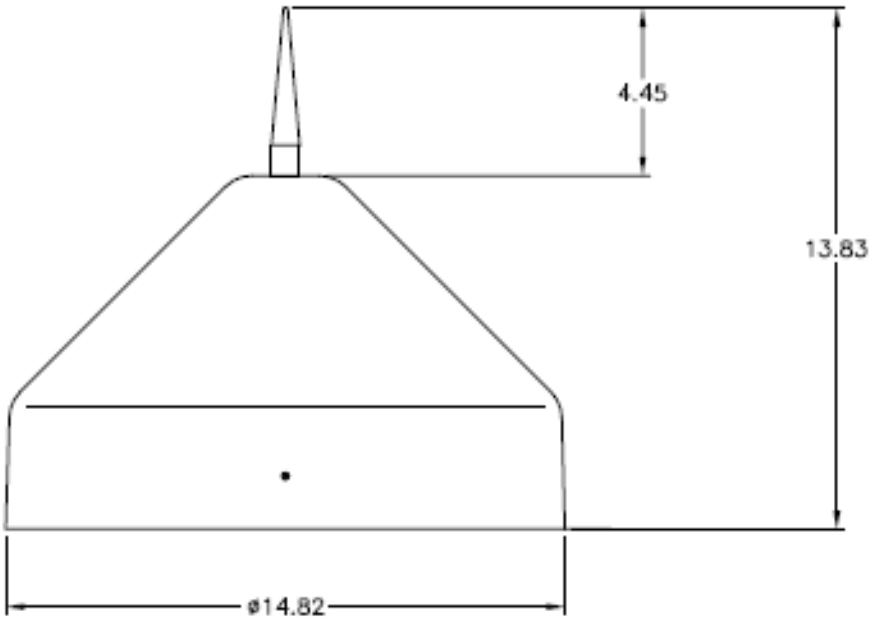
RxControl - RxControl is an intuitive user interface to configure and control all types of PolaRx receivers and monitor, log and post data remotely.

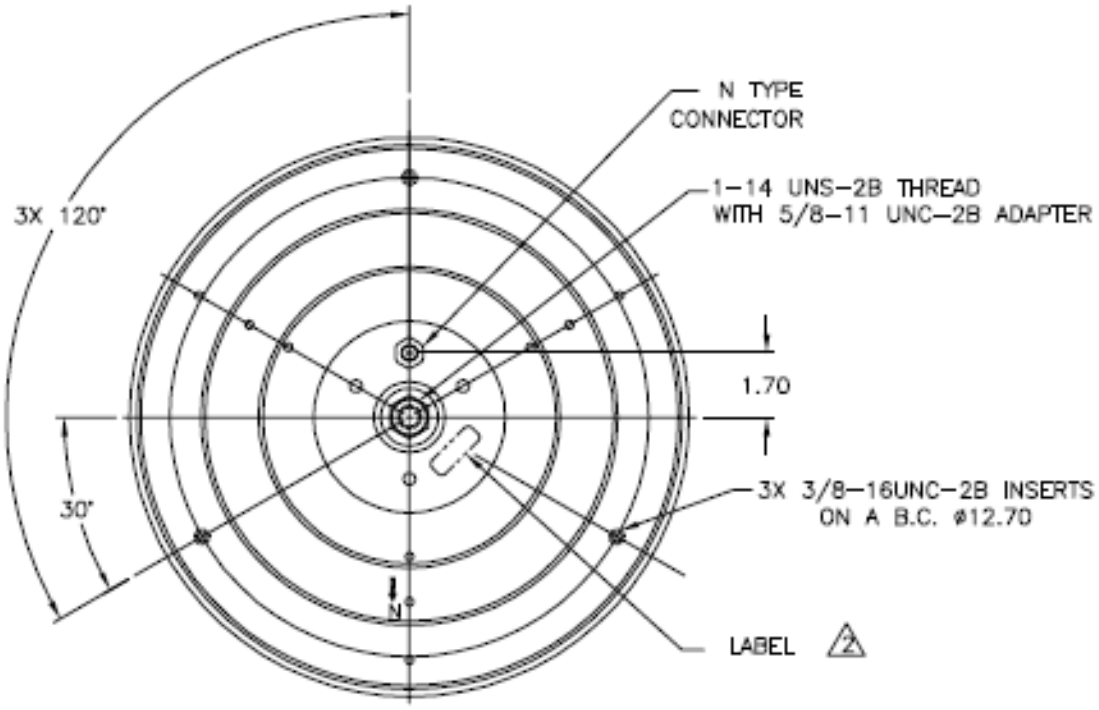
RxMobile - A unique intuitive, portable GUI field controller for the Septentrio receivers. RxMobile allows controlling the receiver, monitoring the navigation solution and accessing its functions in the field in the same intuitive way as with RxControl.

Although believed to be accurate and reliable, Septentrio reserves the right to alter the above specifications without prior notice. However, no responsibility is assumed by Septentrio for its use, nor for any infringements of patents or other rights of third parties resulting from its use.

DIMENSIONS

Dimensions in inches





Specifications subject to change without notice. Some features or specifications may not apply to all models.
© 2010 Septentrio Satellite Navigation. All rights reserved.

SSNDS 04/2010/20

Headquarters :
Ubicenter, Philipssite 5
B-3001 Leuven
Belgium

Phone: +32 16 300 800
Fax: +32 16 221 640
info@septentrio.com
www.septentrio.com

Although believed to be accurate and reliable, Septentrio reserves the right to alter the above specifications without prior notice. However, no responsibility is assumed by Septentrio for its use, nor for any infringements of patents or other rights of third parties resulting from its use.