



PCW-400

PC-400

Antenna Report

© Copyright 2024 BLINQ Networks

CONFIDENTIAL INFORMATION

RESTRICTED USE AND DUPLICATION

All rights reserved.

The information contained in this document is the property of BLINQ Networks. Unless specifically authorized in writing by BLINQ Networks, the holder of this document shall keep all information contained herein confidential and shall protect same in whole or in part from disclosure and dissemination to all third parties.

This document is intended for limited circulation to provide preliminary information and to promote discussion. As such, the information contained in this document is subject to change without notice and should not be construed as a commitment by BLINQ Networks. BLINQ Networks reserves the right to make changes in design or components as progress in engineering and manufacturing may warrant.

Table of Contents

Table of Contents.....	2
1. Introduction.....	3
2. Antenna Report – 5G Access technology.....	4

1. Introduction

The present Antenna Report applies to:

- Product ID: **PC-400-35**
FCC ID:
- Product ID: **PCW-400-35**
FCC ID:

The BLiNQ PC-400-35 product supports the following wireless technologies:

- 5G Access

The BLiNQ PCW-400-35 product supports two distinct wireless technologies:

- 5G Access
- Wi-Fi-7

For each of the wireless technology the Product uses a different or multiple antenna element produced by CCAI. Further on the document will describe each antenna / technology separately.

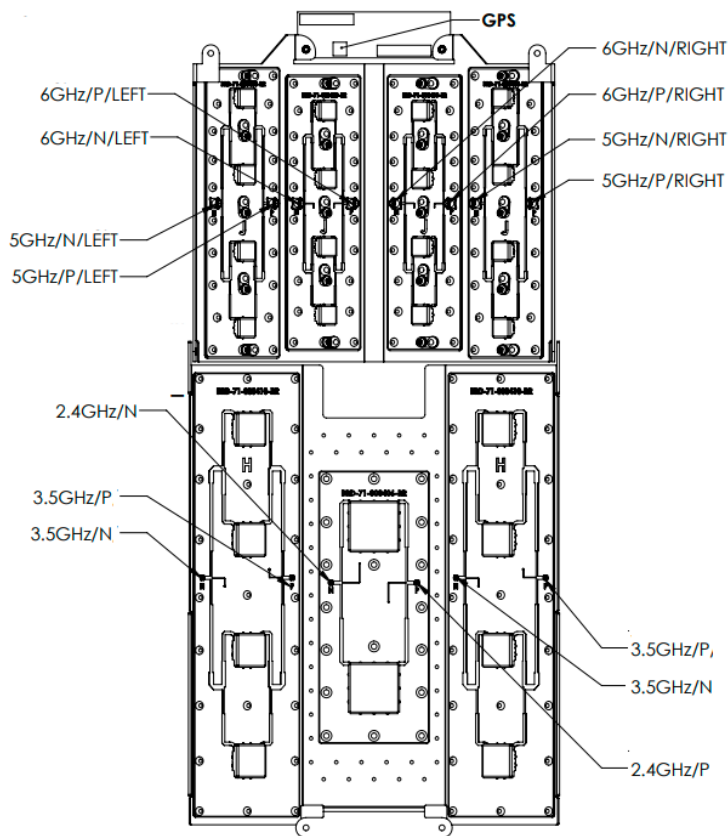


FIGURE 1 PC-400-35 & PCW-400-35 ANTENNA REPORT –ANTENNA OVERVIEW

2. Antenna Report – 5G Access technology

Antenna Patch Designed by:

COMMUNICATION COMPONENTS ANTENNA RESEARCH

88 HINES ROAD

KANATA, ON K2K 2T8

Canada

Mechanical Design by:

BLiNQ Networks

140 Renfrew Drive

Markham, ON L3R 6B3

Canada

The PC-400-35 and PCW-400-35 are using a BLiNQ – CCI proprietary 5G Access Antenna design.

The design is based on:

- 1 Dual Polarized H Band 4Patch Antenna (arrow pointed) – covering 90deg Azimuth and 21deg Elevation BW.
- Per Product, 2 x Dual Polarized H Band 4Patch Antenna are mechanically distributed as presented in Figure 2. Through the mechanical design, the Product ensures a 180 deg azimuth coverage while each 90 deg direction uses a dedicated 1x4Patch (Dual Polarized) Antenna.

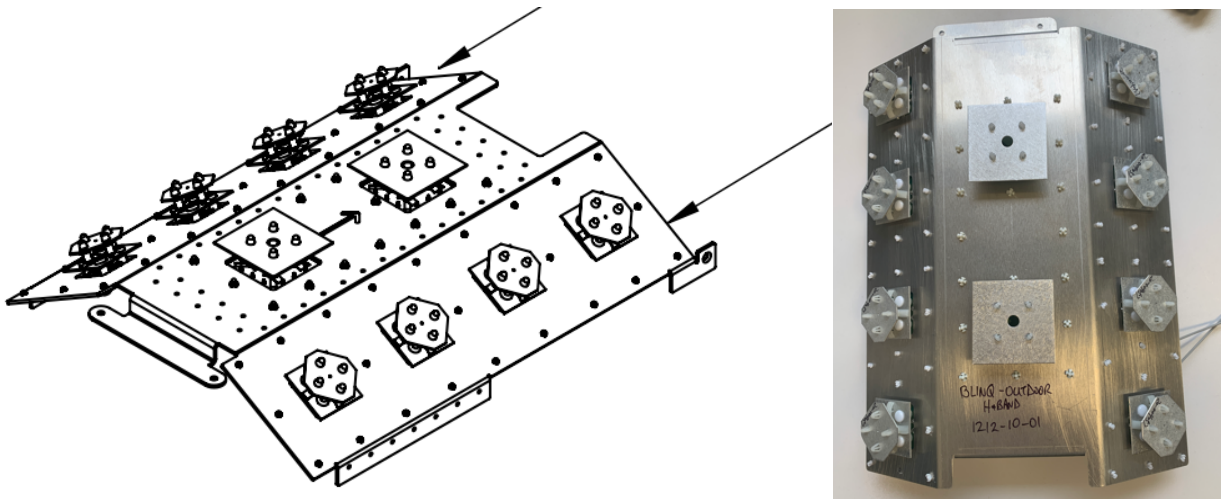


FIGURE 2 PC-400-35 & PCW-400-35 ANTENNA REPORT - 5G ACCESS TECHNOLOGY

TABLE 1 5G TECHNOLOGY – ANTENNA CHARACTERISTICS

5G Access Antenna by CCAI	
Frequency	3300-4200MHz
Gain Peak (dBi)	14
Gain Average (dBi)	13.2
AZ BW(5dB)	85
EL BW(5dB)	21
EDT(°)	0
FBR @ 180 deg(dB)	20
XPD (At Peak)(dB)	20
Isolation(dB)	>25
VSWR	<1.5:1
Input Power(W)	50
Polarization	Dual Linear 45°
Input Impedance	50 Ohms
Lightning Protection	Through the overall mechanical product design

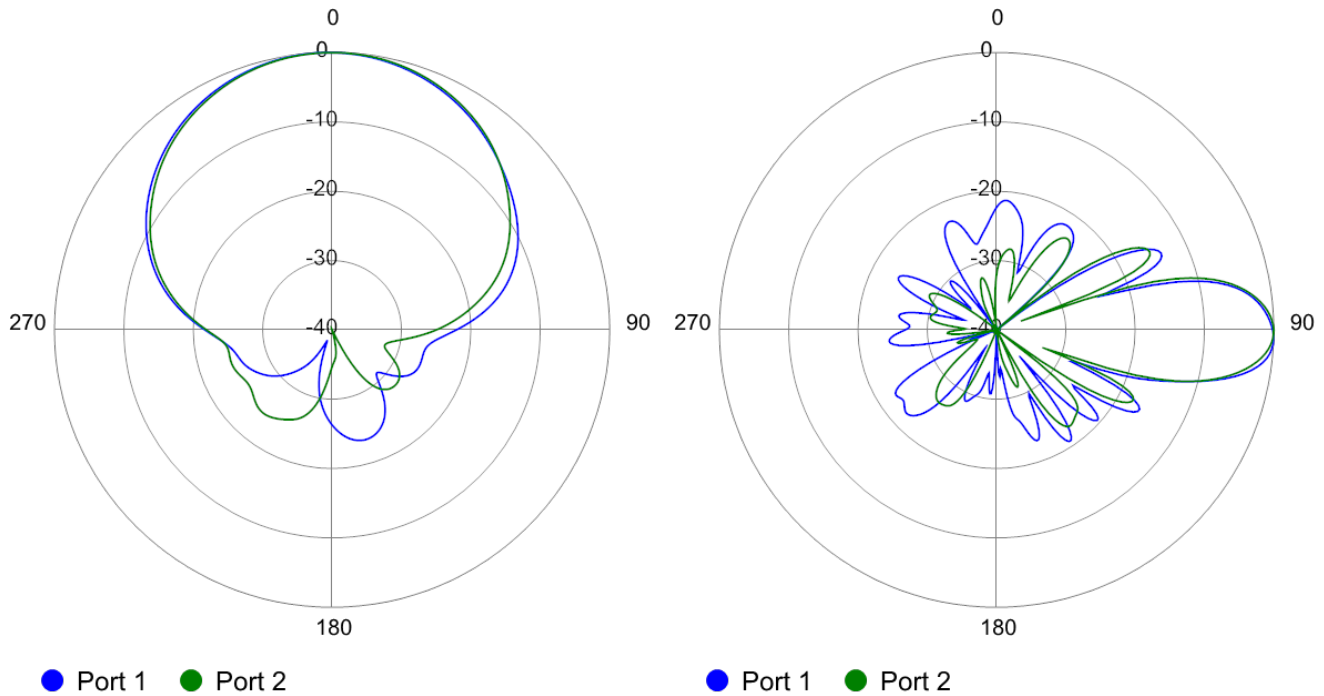


FIGURE 3 5G TECHNOLOGY – ANTENNA RADIATION PATTERN