

XCPI 160/900/ 1800/1900/2100/R

Indoor Right Hand Circular Polarised Antenna for the 160 MHz, GSM, DCS, PCS and UMTS Bands

DESCRIPTION

- Quin band indoor base station antenna - one antenna with five bands.
- Low profile antenna for the 160 MHz, GSM, DCS, PCS and UMTS bands.
- XCPI 160/900/1800/1900/2100/R is a right hand circular polarised antenna for indoor use e.g. on ceilings and walls inside ships and houses.
- Circular polarisation is chosen to avoid out-of-phase signals.
- Reduces flutter considerably.
- Specially designed for closed rooms.
- Covers 160 MHz, GSM, DCS, PCS and UMTS bands with a radiation of approx. 2 dBic 0 dBd.
- The built-in antennas are combined with built in diplexers, with low insertion loss, which make it possible to have only one downlead cable.
- The antenna is carefully sealed with a discreet cover.
- The antenna is provided with 1 connector.
- The connector is placed at one side to enable mounting close to a wall or a ceiling.



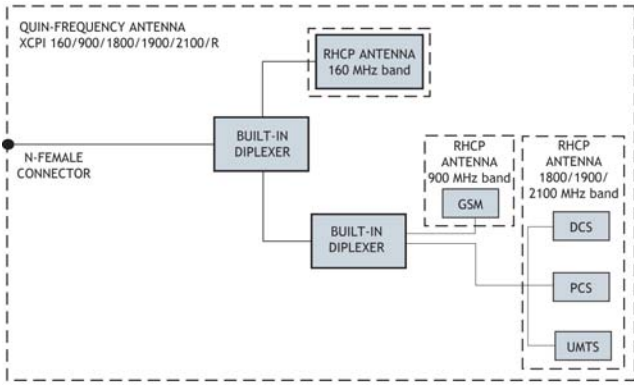
SPECIFICATIONS

ELECTRICAL	
MODEL	XCPI 160/900/1800/1900/2100/R
ANTENNA TYPE	Right hand circular polarised quin band antenna
FREQUENCY	160 MHz: 144 - 175 MHz GSM: 880 - 960 MHz DCS: 1710 - 1880 MHz PCS: 1850 - 1990 MHz UMTS: 1910 - 2200 MHz
IMPEDANCE	Nom. 50 Ω
POLARISATION	Circular (right hand)
GAIN	Approx. 2 dBic 0 dBd \pm 3 dB
BAND WIDTH	160 MHz: \geq 31 MHz @ SWR \leq 2.5 GSM: \geq 80 MHz @ SWR \leq 2.5 DCS: \geq 170 MHz @ SWR \leq 2.0 PCS: \geq 140 MHz @ SWR \leq 2.0 UMTS: \geq 240 MHz @ SWR \leq 3.0
HALF POWER BEAMWIDTH	Approx. 60° (H- and E-plane)
SWR	\leq 1.5 f.res.
MAX. POWER	25 W
MECHANICAL	
CONNECTOR	N-female
COLOUR	Marine white
MATERIALS	Cover: PS (white) Chassis: Stainless steel
SIZE (L x W)	Approx. 608 x 608 mm
HEIGHT	Approx. 90 mm
WEIGHT	Approx. 10 kg
MOUNTING	\varnothing 5.5 mm (4 holes) For optimum performance a groundplane of 1 x 1 m is required

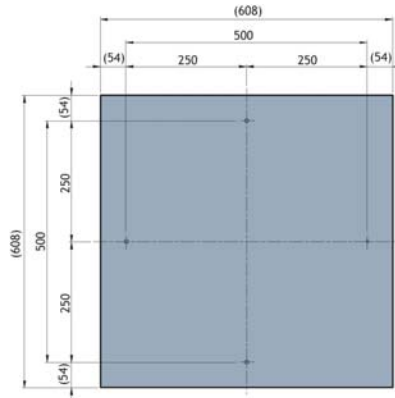
SPECIFICATIONS DIPLEXER

ELECTRICAL FOR BUILT-IN DIPLEXER DIPX 225/330	
FREQUENCY	Low port : 0 - 225 MHz High port : 330 - 1300 MHz
MAX. INPUT POWER	25 W each port
INSERTION LOSS	0 - 225 MHz : \leq 0.5 dB 330 - 1300 MHz : \leq 0.5 MHz
ISOLATION	Low to high port : \geq 45 dB

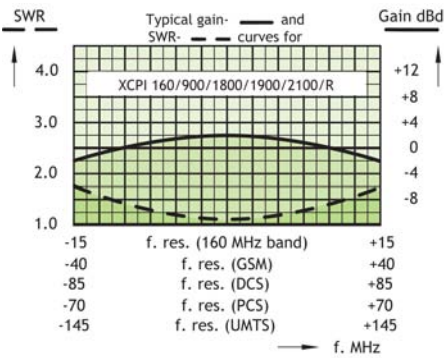
ELECTRICAL FOR BUILT-IN DIPLEXER DIPX 1000/1550	
FREQUENCY	Low port : 0 - 1000 MHz High port : 1550 - 2500 MHz
MAX. INPUT POWER	35 W each port
INSERTION LOSS	0 - 1000 MHz : \leq 0.5 dB 1550 - 2500 MHz : \leq 0.5 MHz
ISOLATION	Low to high port : \geq 45 dB



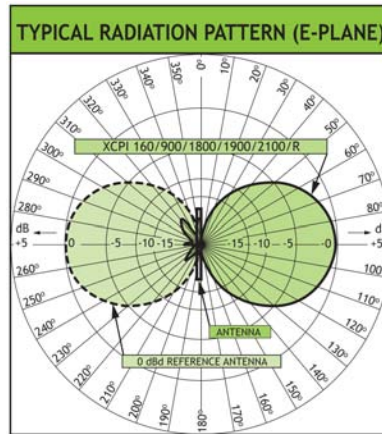
MOUNTING DETAILS



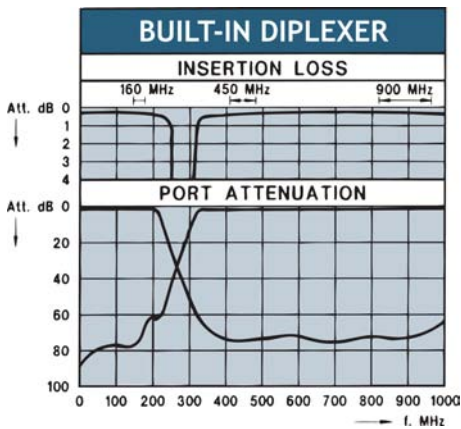
TYPICAL GAIN AND SWR CURVES



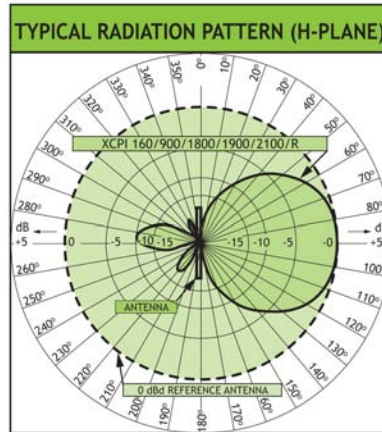
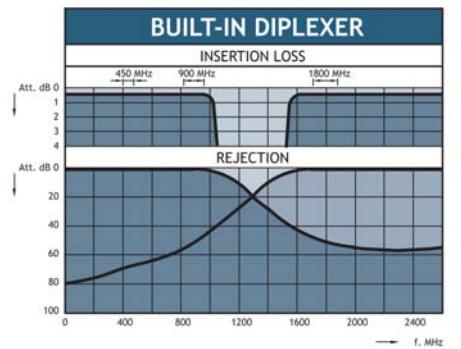
TYPICAL RADIATION PATTERN



BUILT IN DIPLEXER



This curve shows the radiation patterns in the vertical plane.



This curve shows the radiation patterns in the horizontal plane (horizontal coverage).



PROCOM A/S reserve the right to amend specifications without prior notice.

14/11/2008