

IBS 8379 User Manual for installation

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Approver: Guntzburger Philippe

OneDoc site: Hardware Product: 8379

Document Type: Installation_guide

Description: As user documentation is not available yet, this document gathers information's to present the

IBS 8379 products, and their configuration

Keywords: DECT; IBS

History:

Edition	Date	Modification	Reason
00	05.04.2018	creation	
01	09.04.2018	One Doc edition	
02	11.04.2018	One Doc edition	Update after revue with SW
03	04.05.2018	One Doc edition Title: remove R&D Replace customer by installer Remove 4.2.1 Antenna configuration Remove all mention to TBR6, antenna selection, reset button. Remove mention for lab test to keep IBS supply floating Remove chapter 4.7.2.1 related to R&D tests, and replace by the dip switch configuration table	Remove R&D information, and keep what is intended to be used in customer doc.



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1. Terminology and Abbreviations

AE Auxiliary Equipment CE Conducted Emission

CS Conducted Susceptibility/Immunity

EFT/B Fast Transients / Bursts

EMC Electro Magnetic Compatibility
EMI Electro Magnetic interference

ESD Electrostatic discharge
EUT Equipment Under Test
IBS Intelligent Base Station
MFS Magnetic field strength

N.A. Not applicable

PABX Private Automatic Branch Exchange

PBA Printed Board Assembly
PoE Power Over Ethernet
RE Radiated Emission

RS Radiated Susceptibility/Immunity

2. Introduction

As user documentation is not available yet, this document gathers, information's to present the product, and his configuration. Official documentation for installation will be released with the Product Commercial Release.



3. Client information

Name and address of the applicant:	ALE INTERNATIONAL 32 avenue Kléber 92700 Colombes France			
Name of contact person:	Patrick Hauptmann +33 3 90 67 52 12			
Name and address of manufacturer:	ALE INTERNATIONAL 32 avenue Kléber 92700 Colombes France			
Name and address of EMS:	ACCTON TECHNOLOGY CORPORATION INTERNATIONAL HQ No 1 Creation 3rd RD Science-Based Industrial Park 300077 HSINCHU CITY TAIWAN R.O.C			
Name and address of the factory:	JOY TECHNOLOGY (SHENZHEN) CO., LTD. TongFuyu Ind., Shangpai, Shangwu, Aiqun Rd., Shiyan Town, Shenzhen 518108 China Tel:86-755-33816888			
Product type:	Intelligent Base Station DECT			
Trademarks:	Alcatel-Lucent			
Models:	8379 DECT IBS INTEGRATED ANTENNAS 8379 DECT IBS FOR EXTERNAL ANTENNAS 8379 DECT IBS OUTDOOR EXTERNAL ANTENNAS			
Accessories:	External antennas Main power supply			



4. Product description

IBS 8379 is an evolution of IBS 4070 made necessary by the obsolescence of:

□ the RF transceiver

the power supply controller.

IBS 8379 is 100% compatible with the existing IBS 4070 (i.e. installer can add an IBS 8379 to an existing installation or replace an IBS 4070 with an IBS 8379 without any modification of the installation)

4.1 Electrical description

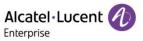
Main changes in IBS 8379 are:

- ☐ The DE19RF19Z transceiver from DSPG Group replaces the Philips based RF module of IBS4070.
- □ A mono board PCB architecture is used since this new radio uses much less components. As a drawback, we have no more place to equip RBS components on the PCB.
 - ⇒ Only IBS is considered by this product, RBS will remain a variant of 4070 design.
- □ A small CPLD is used to adapt our ASIC BBIBS to the new radio interface of DSPG chip.
- ☐ The power supply controller is modified but keeps the same external behavior (no input-output isolation, same alarms, ...). IBS 8379 is supplied:
 - By PBX thanks to UA Links (remote supply)
 - By external Main adapter. (see table at the end of this chapter)
- ☐ The PCB supports two antenna designs:
 - o one with a printed antenna + wire antenna,
 - and one with the same SMA than current IBS 4070 allowing the customer to use external antenna.

SMA solution also remains a backup solution in case the printed antenna in not working as expected.

□ Country/Region and Frequency range management:

- o Thanks to the new DSPG chipset, all frequency range are covered with the same design. There is no more need for Country/Region specific variants, IBS 8379 has worldwide coverage.
- With a minor software evolution, the PABX will indicate to IBS 8379 which regional setting it shall use. However, a default region is being configured in IBS Renewal for compatibility with existing systems.
- To support old system without changing the PABX SW release, Installer is able to force manually the region thanks to an internal HW switch (4xDIL).



DECT Europe spec:

DECT (Europe)	8379 DECT IBS INTEGRATED ANTENNAS	8379 DECT IBS FOR EXTERNAL ANTENNAS	8379 DECT IBS OUTDOOR EXTERNAL ANTENNAS			
Technology:		DECT				
Frequency band:		1880 – 1900MHz				
Lowest transmit/receive		1881,792 MHz				
frequency/MHz: Highest transmit/receive		·				
frequency/MHz:	1897,344 MHz					
Kind of modulation:	GFSK					
Test channel low:	9					
Test channel middle:	5					
Test channel high:						
Maximum number of	12	12	12			
timeslots:	12					
Maximum number of	6	6				
active timeslots:	6 6 6					
Nominal peak output	24 dBm/250mW					
power: Averaged output power:	10,4mW/slot					

DECT US spec:

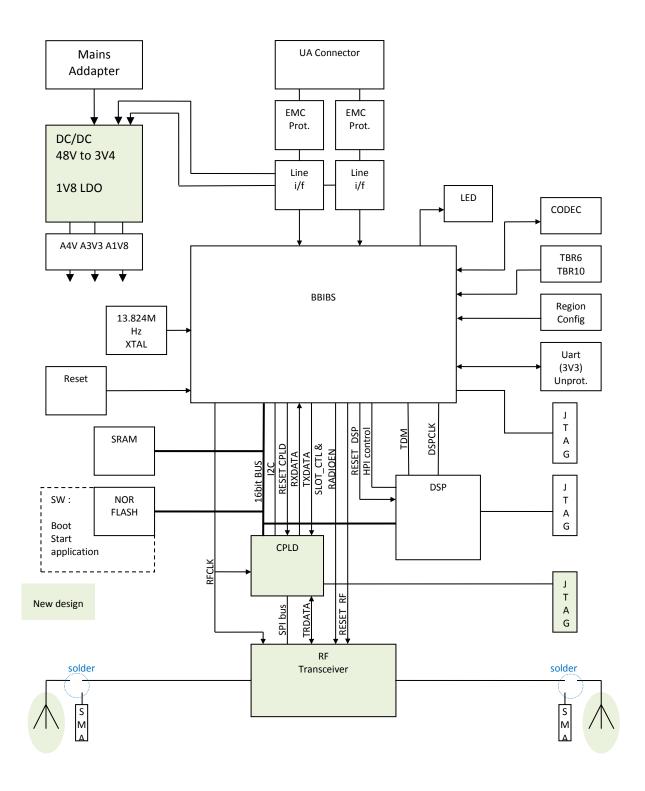
For US configuration, the nominal peak output power is lowered to fulfill FCC regulation. Therefor the output peak power is tuned below 20.88 dBm.

WA-13B48RG-BAAA (level VI) External Power supply spec:

Item	Performance	Remarks
Alcatel Part Number	3MG27066AABA	
Output Voltage	48Vdc	
Output Range	± 5%	
Full Load	0.27A	
Min. Load	0.0A	
Max. Ripple	Voltage 300mVp-p	@Ta=25°C
Hold Up Time	10mS Min	Full Load & 110Vac/60Hz Input @Ta=25°C
Turn on Time	3 S Max	Full Load & 115Vac/60Hz Input @Ta=25°C
Overshoot	10% Max	Power on @90~264Vac/47~63Hz
Line regulation	± 1 %	
Load regulation	± 5 %	



4.1.1 Overall Block diagram





4.2 PCB/PBA description

The PCB has a global thickness of 1.6mm / FR4 material / controlled impedances: $50 \Omega + -10\%$.

There are 3 PBA variants:

- 1. Indoor variant with SMA connectors. (to use external antennas)
- 2. Outdoor variant with SMA connectors (= indoor SMA PBA variant + tropicalized).
- Indoor variant with integrated antenna:
 The 2 antennas use soldered wires or ribbons which extend from the PCB.
 A small modification of the indoor box is required to allow the mounting of these antenna

From electrical point of view, 1) & 2) are identical PBA (same components equipment). But reference changes because of topicalization.

РВА	8379 DECT IBS INTEGRATED ANTENNAS	8379 DECT IBS FOR EXTERNAL ANTENNAS	8379 DECT IBS OUTDOOR EXTERNAL ANTENNAS			
Equipment	Equipped w/o SMA	Equipped w/ SMA				
Antennas connection	Soldered	SMA connector				
Antennas	Wired antenna (internal)	not delivered	external antenna 2dBi embedded			
External antenna NO compatibility		Yes	Yes			
Tropicalisation	N	Yes				

4.3 Mechanical description

The new board fits in the same boxes as the former product indoor & outdoor.

The PCB has the same size as IBS 4070

IBS Box modifications:

- Minor mechanical changes of the indoor box are required for compatibility with the integrated antenna. (remove some internal ribs)
- ☐ Minor change in outdoor box on the Adaptation sheet : top-left hole fixation move

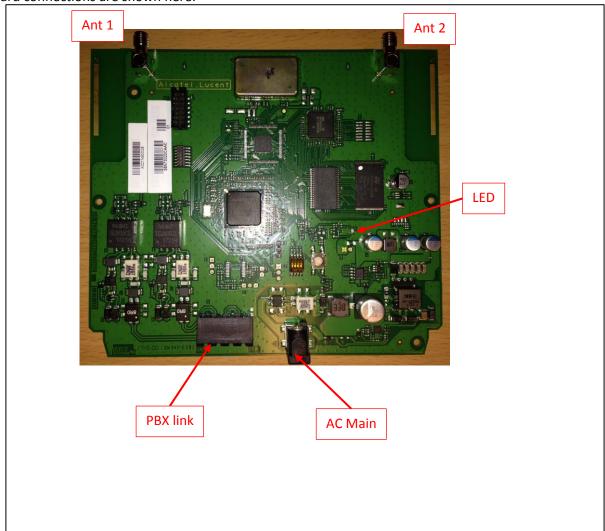
From external point of view, the new IBS 8379 has exactly the same look & feel than the previous IBS 4070.

We have total compatibility of the mounting of the new IBS to replace 4070 IBS.



4.4 Internal interfaces

Board connections are shown here:



- The reset is done remotely by the PBX:
 - SW reset = PBX message
 - o HW reset = PBX cut the UA power link



4.5 External interfaces

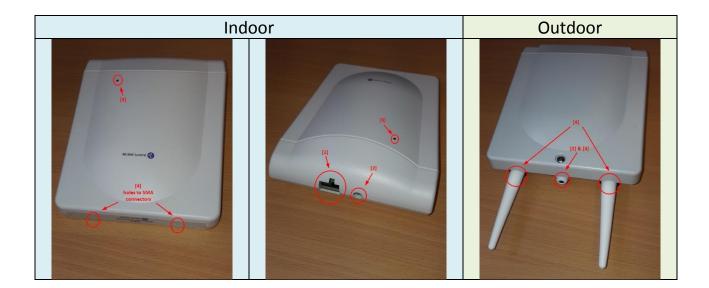
Product Interface one can access are:

1. UA0 & UA1 4x 5.08mm connector for UA cable.

2. External Main adapter. 2.0mm Jack Plug

3. LED provides visual indication

4. Antennas connected to SMA mounted on the PCB



4.6 Product Environment

IBS 8379 shall be plugged as replacement of former IBS generation.

The configuration supports up to 2 UA link between THE PABX and the IBS.

Each UA link provides 256kBits full duplex data rate:

- □ 1x64kbit signalization
- □ 6x32kbit ADPCM

ADPCM/PCM transcoding is done in the PABX.

4.6.1 Supplies

The IBS 8379 is powered like former base station generation. The supply can be:

- Remote supply for all base stations variant
- AC main adapter for indoor product only.

OD-401366 V.2.2

Uffoltz Pierre Draft- 11/04/2018

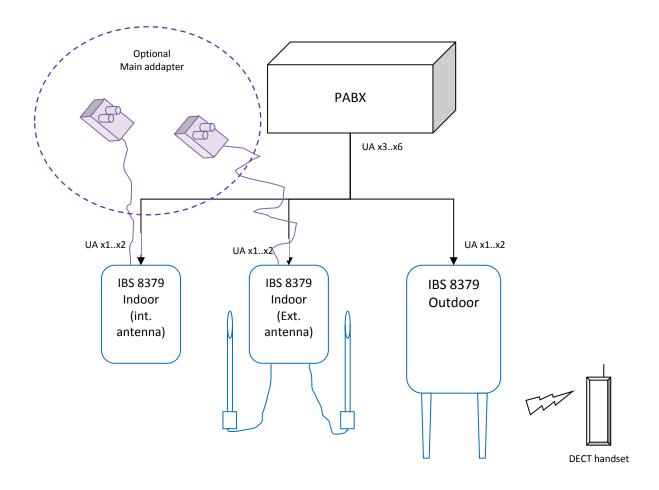
IBS 8379 User Manual for installation 3BN77020xxxx 10/26



Note 1:

Even if we plug the AC Main, PBX link must be plugged to enable the base station.

4.6.2 Overall environment diagram:





4.7 Product configuration

4.7.1 Nominal configuration

In normal use, the configuration of the IBS is the default one (out of the box). The Base station starts without activating RF, and wait PBX connection through the UA link.

Important:

- The end user has no way to change the frequency or output power of the base station.
- Only the installer can manage the RF Frequency Band and/or the output power. Either in the PBX configuration, protected by password, either on the HW dip switch inside the box and not available as external interface.
- Installer must ensure the configuration he chooses, complies with local regulation. And installer must ensure to avoid un-authorized configuration setting.

Several cases are possible:

- → IBS 8379 is connected to new PBX release (i.e. OXE R12.2 or above):
 - o At initialization, the PBX will send the frequency band to the IBS.
 - o IBS will configure his RF chip for DECT in the correct frequency band
- → IBS 8379 is connected to older PBX release:
 - At initialization, the PBX does not give the frequency band info.
 - o IBS will send back her current frequency band (ex. European)
 - The PBX checks the IBS region
 - If IBS region is compatible with PBX configured region then all is OK, base station is operating
 - Else IBS region is not compatible with the PBX configured region Then the PBX resets the IBS
 - o IBS restarts, and again receive the PBX init message without frequency band info.
 - This time IBS will send back a status with the next frequency band in the list (ex. China)
 - This process will loop over the 4 frequency bands (Europe China Latam US) until the PBX and the IBS region are compatible. Then the base station is working.
- → Installer wants to force in manual mode the IBS region:

- o Installer opens the base station shell, select the relevant value
- When connected to the system, the IBS will start with the region set.
- o When the OXE checks the region compatibility, he resets the base station if not compatible.
- o It is then under installer responsibility to configure correctly the base station.



The SW knows the IBS variant (indoor, indoor with ext. antenna, outdoor) from ALE part number stored in EEPROM during manufacturing tests.

Therefor the output power can be reduced automatically for indoor product according the next table. But the <u>outdoor product has one case involving manual setting</u> (represented in blue). This case is used when the installer will connect 8dBi antenna on outdoor product in US frequency band.

	IBS 8379 IO INDOOR INTEGRATED ANTENNAS	IBS 8379 IO INDOOR FOR EXTERNAL ANTENNAS	IBS 8379 EO OUTDOOR WITH EXT. ANTENNAS	DIP switch 4
Region	3BN73020BA	3BN73020CA	3BN73020DA	RFBD-4
Europe	23dBm	23dBm	23dBm	1
China	23dBm	23dBm	23dBm	1
Latam	23dBm	23dBm	23dBm	1
USA	19dBm	13dBm	19dBm	1
USA	13dBm	13dBm	13dBm	0

Note 1: The Bold value in the table represent the physical configuration of IBS Base station with external antenna of 8dBi gain

Note 2: Even if not mandatory, region like Europe can be configured by installer with the output power reduced by 6dB. This could help if there are too much reflection in a given location, or if several Base stations are in a close location to increase density.



4.7.1.1 Compatibility table

Compatibility table is shown hereafter:

- Standard use in Bold
- Reduced power in grey

4.7.1.1.1 8379 DECT IBS INTEGRATED ANTENNAS: 3BN77020BA

		_		Other	countries		US	Only
Product	Antenna	Antenna ref	Antenna Gain	Europe	China	Latam		USA
8379 DECT IBS None, wire + printed		23dBm	23dBm	23dBm		19dBm		
INTEGRATED ANTENNAS 3BN77020BA	Integrated	PCB 2dB omnidirectional	2dBi	17dBm	17dBm	17dBm		13dBm

4.7.1.1.2 8379 DECT IBS FOR EXTERNAL ANTENNAS: 3BN77020CA

				Other	countries		US	Only
Product	Antenna	Antenna ref	Antenna Gain	Europe	China	Latam		USA
	External	MA430X12 7.5dB omnidirectional	8dBi	23dBm	23dBm	23dBm		13dBm
				17dBm	17dBm	17dBm		13dBm
8379 DECT IBS FOR EXTERNAL ANTENNAS	External	1319.19.0004	8dBi	23dBm	23dBm	23dBm		13dBm
3BN77020CA	LHCP circular	LHCP circular righthand		17dBm	17dBm	17dBm		13dBm
	External 1319.19.0005 RHCP circular righthand	8dBi	23dBm	23dBm	23dBm		13dBm	
			17dBm	17dBm	17dBm		13dBm	



4.7.1.1.3 8379 DECT IBS OUTDOOR EXTERNAL ANTENNAS: 3BN77020DA

					Other	countries		US	Only
Product	Antenna	Antenna ref	Antenna Gain		Europe	China	Latam		USA
	External	MA300X05 2dB omnidirectional			23dBm	23dBm	23dBm		19dBm
	External		2dBi		17dBm	17dBm	17dBm		13dBm
	Futomol	MA430X12 7.5dB omnidirectional	8dBi		23dBm	23dBm	23dBm		Unauthorized (1)
8379 DECT IBS OUTDOOR	External				17dBm	17dBm	17dBm		13dBm (2)
EXTERNAL ANTENNAS 3BN77020DA	External	LHCP circular righthand	8dBi		23dBm	23dBm	23dBm		Unauthorized (1)
					17dBm	17dBm	17dBm		13dBm (2)
	5.1				23dBm	23dBm	23dBm		Unauthorized (1)
	External RHCP circular righthand		8dBi		17dBm	17dBm	17dBm		13dBm (2)

Note 1: Unauthorized configuration. Installer needs to take care to never use this setting. Installer must follow the expert configuration documentations.

Note 2: Underlined in yellow, requested configuration. Installer must follow the expert configuration documentations.

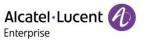


4.7.2 Manual configuration

Nominal case does not require to do manual configuration. The SW can configure dynamically the 8379 DECT Base Station.

End user has not access to Manual configuration.

Installer must follow the expert configuration documentations, to configure correctly and homogenously the whole system.



5. Submitted Items lists

5.1 Test Items

Ref Commercial				
3BN77020BA 8379 DECT IBS INTEGRATED ANTENNAS				
3BN77020CA	8379 DECT IBS FOR EXTERNAL ANTENNAS			
3BN77020DA	8379 DECT IBS OUTDOOR EXTERNAL ANTENNAS			

5.2 Accessories

5.2.1 Power adapter:

ref	Commercial	
3MG27066AABA WA-13B48RG-BAAA (level VI)	Power Adapter with movable plug	Input:90-264V,47~63Hz Output:48V/0.27A

5.2.2 Embedded antennas:

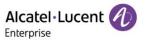
Antenna integrated on the IBS 8379 indoor: 3BN77020BA

ref	Commercial	
	None, wire + printed PCB 2dB omnidirectional	Gain 2dBi

Antenna embedded on the IBS 8379 outdoor: 3BN77020DA

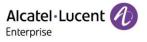
ref	Commercial		
		TECHNICAL DATA:	
		Product code	MA300X05
		Frequency range	1880 to 1930 MHz
		Nominal impedance	50 ohms
		VSWR	≤ 1.5
1AF10050AAAA		Polarization	linear, vertical (antenna installed vertical)
		Gain	2 dBi
		Radiation in horizontal plane	omnidirectional
	MA300X05 2dB omnidirectional	Radiation in vertical plane	beamwidth (E plane) at −3 dB : ≈ 70°
		Maximum power	5 watts
		Connector	SMA male at the end of a RG316 coaxial cable (overall length : ≈ 360 mm)
		Height	116 mm above mounting surface
		Shroud diameter	19.2 mm the base
		Shroud material / color	UV-resistant white plastic, UL94HB
		Weight	≈ 70 g
		Temperature range	-33°C to +55°C
		Environment	ETS 300 019-2-3, specification T3.3
		Wind speed	160 km/h

Uffoltz Pierre



5.2.3 External antennas:

ref	Commercial	
3BD52212AA	MA430X12 7.5dB omnidirectional https://amphenol-antennas.com/	■ Type MA430X12 ■ Frequency (MHz) 1880-1900 ■ VSWR <1.5: 1 ■ Gain (dBi) 8 ■ Polarisation Vertical ■ E Plane Beamwidth (-3 dB Points) 17° ■ Maximum Power (Watts) 10 ■ Termination SMA socket ■ Dimensions mm 73 - Ø 1.5 ■ Weight (kg) 0.235 ■ Windloading @45 m/s (N) 26 at 160 km/h ■ Colour Grey ■ Shroud Glass fibre ■ Brackets / Mounting Plastic mounting bracket ■ Packing Details ■ Packing Individual plastic bag ■ Dimensions mm 73 ■ Weight (kg) 0.4
3BD52205AA	SENCITY® Spot-S indoor Antenna https://ecatalog.hubersuhner.com	 1319.19.0005 item n° 22650451 SENCITY SpotS planar indoor DECT antenna Polarisation: RHCP circular righthand Working range: 1850 to 1990 MHz Half power beamwidth: 70° / 70° (vert./hor.); 8 dBi Gain Wall mounting socket included
3BD52206AA	SENCITY® Spot-S indoor Antenna https://ecatalog.hubersuhner.com	 1319.19.0004 item n° 22650455 SENCITY SpotS planar indoor DECT antenna Polarisation: LHCP circular lefthand Working range: 1850 to 1990 MHz Half power beamwidth: 70° / 70° (vert./hor.); 8 dBi Gain Wall mounting socket included
3DC01001AA	DC Bloc	■ SMA DC bloc



6. Annexes

6.1 Products Photo

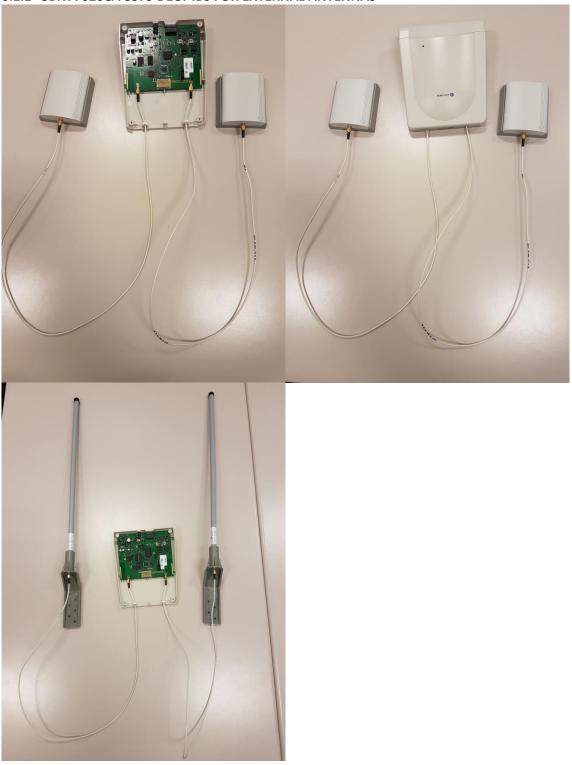
Hereafter you find a portfolio with some photo presenting the different IBS. Not all combination of external antenna are presented, but at least one of each.

6.1.1 3BN77020BA 8379 DECT IBS INTEGRATEDANTENNAS





6.1.2 3BN77020CA 8379 DECT IBS FOR EXTERNAL ANTENNAS





6.1.3 3BN77020DA 8379 DECT IBS OUTDOOR EXTERNAL ANTENNAS





6.2 Antenna specs

6.2.1 MA300x05



OMNIDIRECTIONAL ANTENNA 2 dBi

1880 - 1930 MHz

MA300X05

MA300X05 is an omnidirectional dipole antenna. It is supplied with the nut and the washer needed for

TECHNICAL DATA:

MA300X05 Product code 1880 to 1930 MHz Frequency range

50 ohms Nominal impedance VSWR ≤ 1.5

Polarization linear, vertical (antenna installed vertical)

Gain 2 dBi

mounting through a hole.

Radiation in horizontal plane omnidirectional

Radiation in vertical plane beamwidth (E plane) at -3 dB : ≈ 70°

Maximum power 5 watts

SMA male at the end of a RG316 coaxial Connector

cable (overall length : ≈ 360 mm)

Height 116 mm above mounting surface

Shroud diameter 19.2 mm the base

Shroud material / color UV-resistant white plastic, UL94HB

Weight ≈ 70 g

Temperature range -33°C to +55°C

Environment ETS 300 019-2-3, specification T3.3

Wind speed 160 km/h

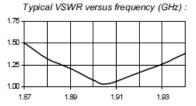
Grounding the inner conductor of the connector is not

DC grounded.

through a hole. The antenna has a M12 threaded Mounting

base, 17mm long, and is supplied with a nut and a

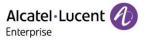
plastic locking washer.



DT 5109 - Ed B anglais - page 1/1 - We reserve the right to modify our products without prior notice.

MAT Equipement - 17 bis, rue du Chemin Vert - 94100 Saint-Maur-des-Fossés - France - Tel.: +33 (0)1 55 96 10 10





6.2.2 MA430x12

JAYBEAMWire

- MA430X12 -



OMNIDIRECTIONAL ANTENNAS

MA430X12 is an omnidirectional colinear antenna fitted with a SMA female connector and a plastic mounting bracket.

 Type
 MA430X12

 Frequency (MHz)
 1880-1900

 VSWR
 <1.5 : 1</td>

 Gain (dBi)
 8

 Polarisation
 Vertical

 E Plane Beamwidth (-3 dB Points)
 17°

 Maximum Power (Watts)
 10

 Termination
 SMA socket

 Dimensions mm
 73 - Ø 1.5

 Weight (kg)
 0.235

 Windloading @45 m/s (N)
 26 at 160 km/h

Colour Grey
Shroud Glass fibr

Brackets / Mounting Plastic mounting bracket

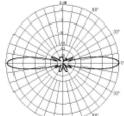
Packing Details

Packing Individual plastic bag

 Dimensions mm
 73

 Weight (kg)
 0.4









reserve the right to modify or amend any antenna or specification without prior notice. The specification shown above is indicative of the product and full technical details can be obtained directly from the company

Web Site: www.jaybeamwireless.com



6.2.3 1319.19.0004

Data Sheet



SENCITY® Spot-S indoor Antenna 1319.19.0004

SPA-1900/70/8/0/LCP

Description

SENCITY Spot-S planar indoor DECT antenna Polarisation: LHCP circular left-hand Working range: 1850 to 1990 MHz

Half power beamwidth: 70° / 70° (vert./ hor.), 8 dBi Gain

Wall mounting socket included



Product Configuration

Technical Data

Electrical Data

	Band 1
Frequency (MHz)	1850 - 1990
VSWR	1.5
Impedance (Ohm)	50
Gain (dBi)	8
3dB beamwidth (h) (°)	70
3dB beamwidth (v) (°)	70
Front to back ratio (dB)	20
Axial ratio (dB)	3
Vertical electrical tilt (°)	0

Ports

	Port 1
Connector	SMA, jack (female)
Polarization	circular left

General Data

DC Grounding Composite Power max (W)

Mechanical Data

Dimensions (mm) 101 x 95 x 32 (Heigth x Width x Depth) Weight (kg) 0.115

frontal: 15 N at 160 km/h , Wind speed survival: km/h

Included mounting material Wall mounting material

Mounting socket material: ASA and aluminium Mounting socket colour: RAL 7042 (dark grey)

Environmental Data

Environmental conditions -40 to 80 Operation temperature (°C) Storage temperature (°C) Transport temperature (°C) RoHS 2011/85/EU -40 to 80 -40 to 80 compliant REACH 2006/1907/EC

Material Data

RAL 7035 (light-grey)

Document: DOC-0000326196 K / PDO W / date of publication: 23.08.2017 14:33:04 / uncontrolled copy

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6.2.4 1319.19.0005

Data Sheet



SENCITY® Spot-S indoor Antenna 1319.19.0005

SPA-1900/70/8/0/RCP

Description

SENCITY Spot-S planar indoor DECT antenna Polarisation: RHCP circular right-hand Working range: 1850 to 1990 MHz

Half power beamwidth: 70° / 70° (vert./ hor.), 8 dBi Gain

Wall mounting socket included



Product Configuration

Technical Data

Ele	ctric	al D	ata

Band 1		
VSWR 1.5 Impedance (Ohm) 50 Gain (dBi) 8 3dB beamwidth (h) (*) 70 3dB beamwidth (v) (*) 70 Front to back ratio (dB) 20		Band 1
Impedance (Ohm) 50 Gain (dBi) 8 3dB beamwidth (h) (*) 70 3dB beamwidth (v) (*) 70 Front to back ratio (dB) 20	Frequency (MHz)	1850 - 1990
Gain (dBi) 8 3dB beamwidth (h) (*) 70 3dB beamwidth (v) (*) 70 Front to back ratio (dB) 20	VSWR	1.5
3dB beamwidth (h) (*) 70 3dB beamwidth (v) (*) 70 Front to back ratio (dB) 20	Impedance (Ohm)	50
3dB beamwidth (v) (*) 70 Front to back ratio (dB) 20	Gain (dBi)	8
Front to back ratio (dB) 20	3dB beamwidth (h) (°)	70
	3dB beamwidth (v) (°)	70
Vertical electrical tilt (*) 0	Front to back ratio (dB)	20
	Vertical electrical tilt (°)	0

Ports

	Port 1
Connector	SMA, jack (female)
Polarization	circular right

General Data

No 10 Composite Power max (W)

Mechanical Data

101 x 95 x 32 (Heigth x Width x Depth) Dimensions (mm)

Weight (kg)

frontal: 15 N at 160 km/h , Wind speed survival: km/h Windload

Included mounting material

Mounting socket material: ASA and aluminium Mounting socket colour: RAL 7042 (dark grey)

Environmental Data

Environmental conditions Operation temperature (°C) -40 to 80 Storage temperature (°C) Transport temperature (°C) -40 to 80 -40 to 80 RoHS 2011/85/EU REACH 2008/1907/EC compliant compliant

Material Data

RAL 7035 (light-grey) Radome colour

Radome material ASA (acrylic ester-styrene-acrylonitrile) RAL 7042 (dark-grey)

Back plate/base plate colour

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END OF DOCUMENT

OD-401366	V.2.2	IBS 8379 User Manual for installation		stallation
Uffoltz Pierre		Draft- 11/04/2018	3BN77020xxxx	26/26