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SOLIS
IT SOLUTIONS

SASHA SMART HOTEL
DIGITAL TRANSFORMATION

Let's invent tomorrow

THE CURRENT STATE

THE ANNUAL REVENUES OF HOTEL AND LEISURE SECTOR IN GUINEA ARE PREDICTED TO HIT $650 MILLION BY 2025.

EURO MONITOR INTERNATIONAL
Q3 2021

GUNIEA GENARATED $416 MILLION IN 2018

SOCIAL AND ECONOMIC GEOGRAPHY
2020

THE CURRENT STATE

TODAY'S HOTEL GUESTS DONT'T WANT TO BE PART OF THE CROWD- THEY WANT UNIQUE EXPERIENCE TO THEIR EXPECTATION.

62% OF GLOBAL RESPONDENTS SURVEYED SAY THE QUALITY OF THE GUESTS EXPERIENCE AT THEIR PROPERTIES WOULD BE SIGNIFICANTLY IMPROVED BY ENHANCED IN ROOM AND ON-PROPERTY GUESTS SERVICES.

“

CHANGE BEFORE YOU HAVE TO

Jack Welch

HOW WE DO IT

A FRESH APPROCH TO CUSTOMER EXPERIANCE THRU DIGITAL TRANSFORMATION.

SASHA SMART HOTEL IS A HOTEL EQUIPPED WITH DISRUPTIVE TECHNOLOGIES SUCH AS INTELLIGENT SENSORS AND IOT, WITH THE AIM OF IMPROVING GUESTS EXPERIANCE, MANAGEMENT AND EFFICIENCY.

WHAT WE DO

01
Technology

Access control & Security
Smart rooms
Automation
Energy Management

02
CX

Authentic Experience
Owned Bookings
Real Time Positve Review

03
Data

Guest Preference
Live Dashboard
Cloud Access

OUR DELIVERABLES

- ELV SYSTEMS
- PMS
- ELECTRICAL
- INTEGRATED DASHBOARD
- GRMS
- CLOUD DATA ACCESS

ELV SYSTEMS

- STRUCTURED NETWORKING
- SUVEILLANCE SYSTEM
- ACCESS CONTROL
- WIRELESS NETWORK SYSTEM
- IP TV
- INTERCOM SYSTEM
- SMART BLINDS

ELECTRICAL

- WIRING POWER SUPPLY
- POWER POINT INSTALLATION
- DB/SMDB/LV CIRCUT CONNECTION
- CONTAINMENT & GI TRUNKING
- LOAD TEST CALCULATION

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GRMS
TEMPETATURE CONTROL
LIGHT CONTROL
CURTAIN CONTROL
ROOM SERVICE
TV CONTROL
ELECTRICAL CONTROL
WELCOMING MUSUC
2054
PRIVACY
MASTER
COVE
HEADBOARD
BATHROOM
BEDROOM
AUTO OFF
23°C
ENTRANCE
BATHROOM
MASTER
SERVICE
PRIVACY
MASTER
COVE
SPOT
BATHROOM
DECORATIVE

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PMS

INTEGRATED DASHBOARD

- CUSTOMIZED USER DASHBOARD
- DESKTOP / MOBILE VERSION
- NOTIFICATION
- ALL SYSTEMS INTEGRATED

CLOUD DATA ACCESS

- SECURERD ACCESS
- 24/7 DATA BACKUP
- POC 2 CERTIFIED
- AWS WEB SERVER

TECHNICAL DRAWINGS

SASHA SMART HOTEL - ELV
GROUND FLOOR PLAN

ELV LEGEND

	10 % DETECTION VIEW CAMERA	2 Nos
	SINGLE DATA WALL SOCKET HEIGHT 300mm	12 Nos
	WIFI	4 Nos

ELV CONTRACTOR:

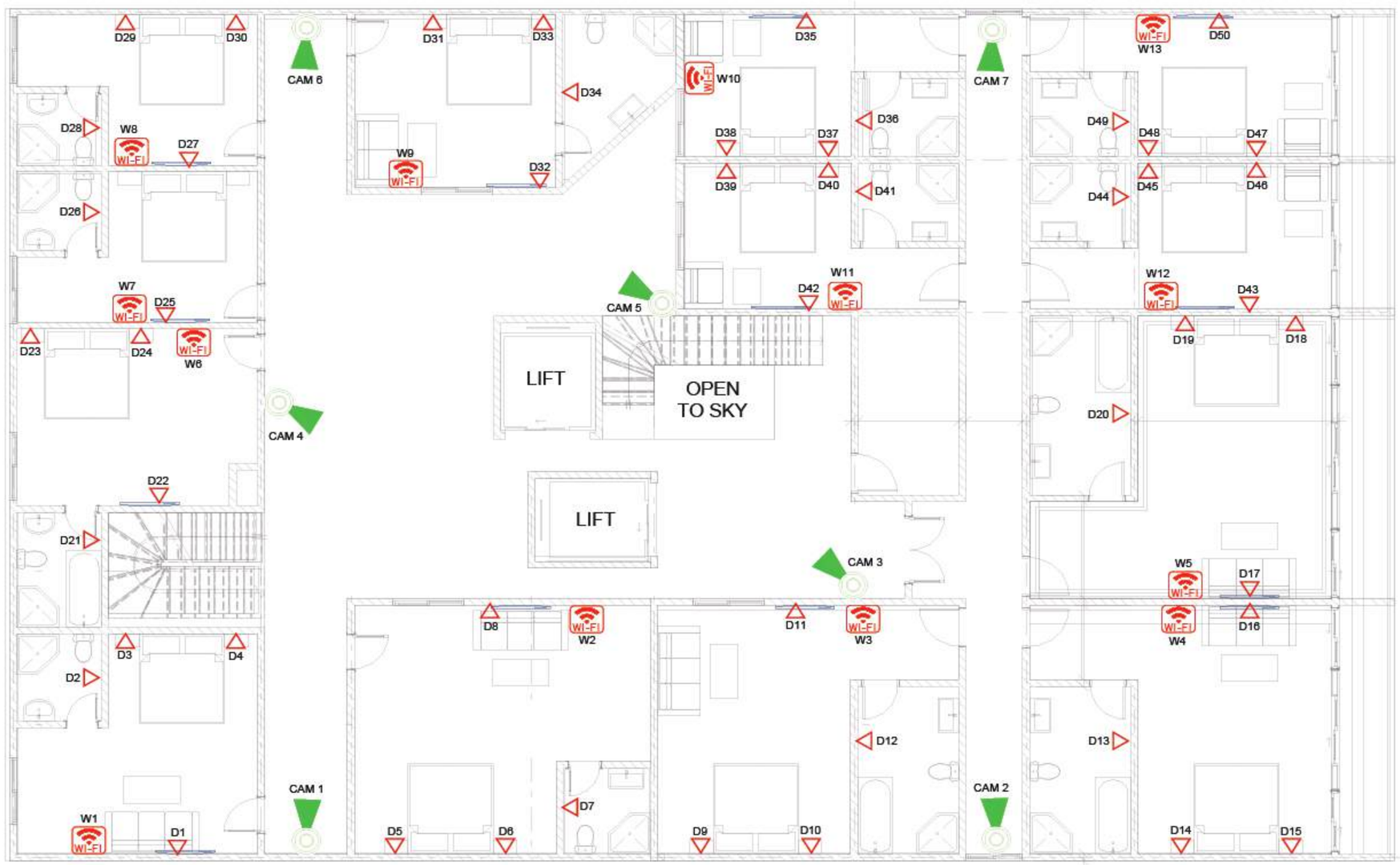
VEGADIGITAL IT SOLUTIONS LLC
Solutions beyond technology
PO Box 18845 - E-mail : admin@vitsllc.com

SHEET TITLE :

SASHA SMART HOTEL - ELV GROUND FLOOR PLAN

DWG. NO.	REV.	SCALE	SHEET SIZE	SHEET- 01 OF 01
VITS-FF-001	00	N.T.S	A1	DATE- 20-09-2023
			PROJECT No : VITS-PR-XXX	

SASHA SMART HOTEL - ELV
2ND FLOOR To 6TH FLOOR PLAN



GF LEGEND

	10 % DETECTION VIEW CAMERA	7 Nos
	SINGLE DATA WALL SOCKET HEIGHT 300mm	50 Nos
	WIFI	13 Nos

GF CONTRACTOR:

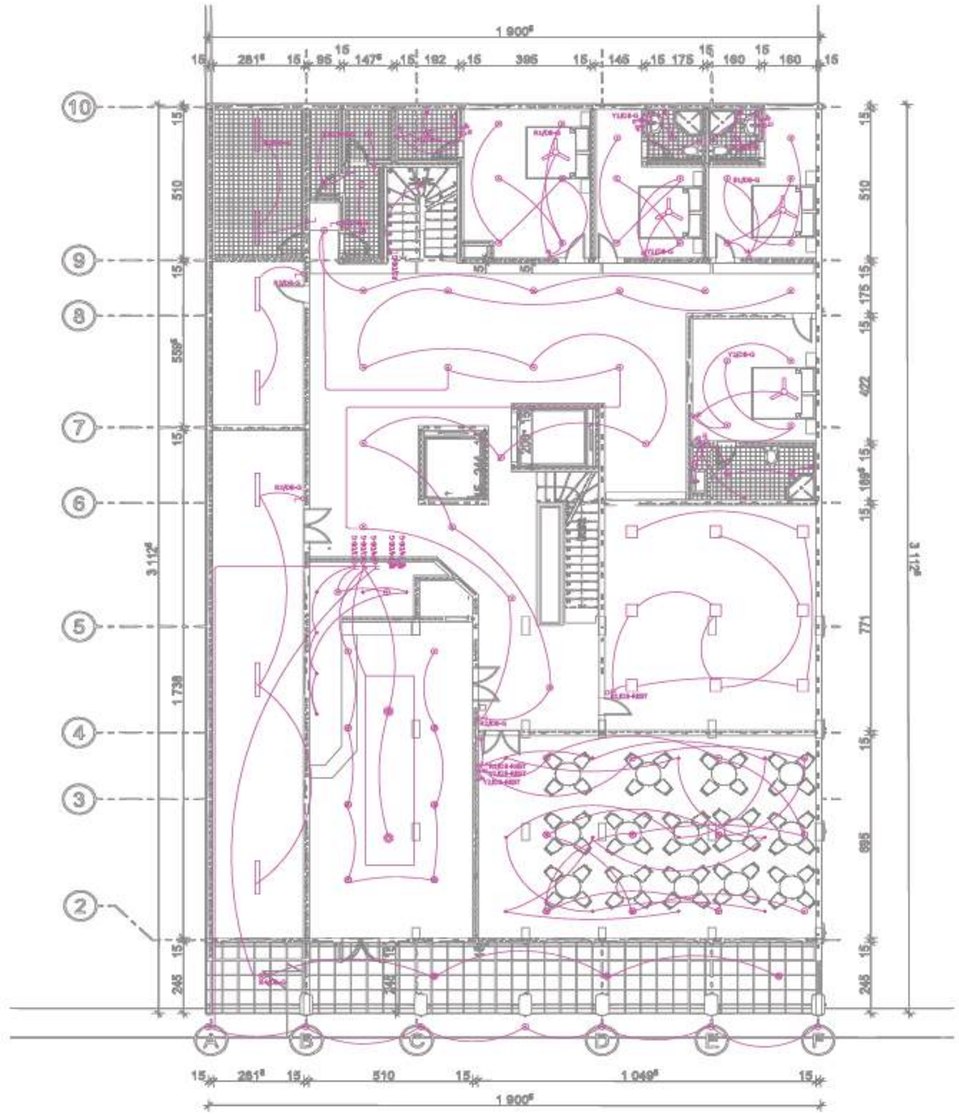
VEGADIGITAL IT SOLUTIONS LLC
Solutions beyond technology
PO Box 18845 - E-mail : admin@vitsllc.com

SHEET TITLE :

SASHA HOTEL
2ND FLOOR TYPICAL

DWG. NO.	REV.	SCALE	SHEET SIZE	SHEET- 01 OF 01
VITS-GF-006	00	N.T.S	A1	DATE- 20-09-2023
			PROJECT No : VITS-PR-XXX	

GROUND FLOOR LIGHTING LAYOUT



LEGEND:

	20A DP SWITCH
	BELL SWITCH
	1-GANG SWITCH
	2-GANG SWITCH
	3-GANG SWITCH
	30W DOWN LIGHT
	12W WALL LIGHT/ MIRROR LIGHT
	CEILING FAN
	30W WEATHERPROOF TUBELIGHT
	5W SPOT LIGHT
	30W DOWNLIGHT
	60*60 PANEL LIGHT
	WATER HEATER
	13A SINGLE SOCKET
	13A DOUBLE SOCKET
	15A SINGLE SOCKET
	DISTRIBUTION BOARD
	EXHAUST FAN
	TP ISOLATOR
	SP ISOLATOR

DRAWING TITLE:

GROUND FLOOR LIGHTING LAYOUT

DATE: 30/09/2023

IT DESIGN:

SOLIS IT SOLUTIONS SARL TECH ARCHITECTS

PROJECT:

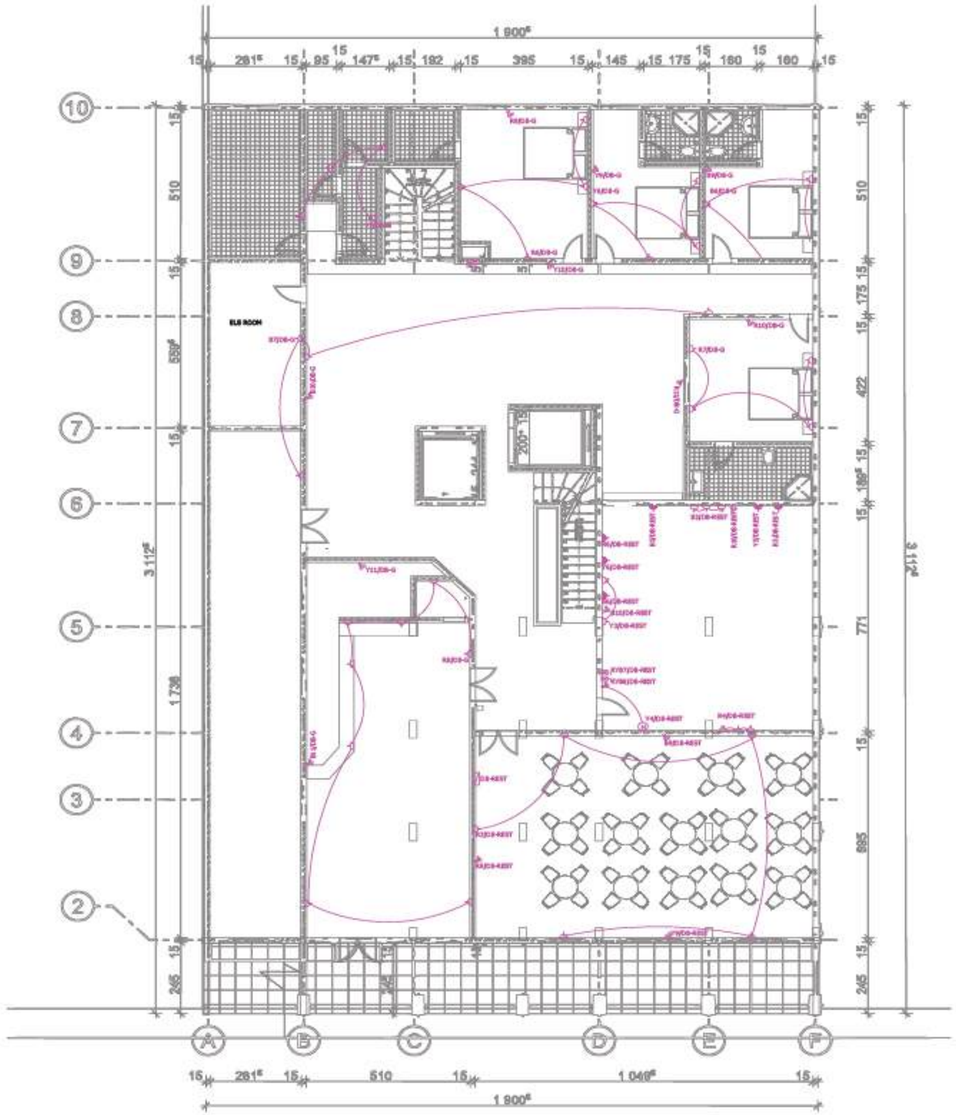
SASHA SMART HOTEL

Kaloum, Conakry

ELECTRICAL CONTRACTOR:

JUMADAD LIGHTING EQUIPMENT LLC

GROUND FLOOR POWER LAYOUT



LEGEND:

	20A DP SWITCH
	BELL SWITCH
	1-GANG SWITCH
	2-GANG SWITCH
	3-GANG SWITCH
	30W DOWN LIGHT
	15W WALL LIGHT/ MIRROR LIGHT
	CEILING FAN
	30W WEATHERPROOF TUBELIGHT
	5W SPOT LIGHT
	30W DOWNLIGHT
	60*60 PANEL LIGHT
	WATER HEATER
	13A SINGLE SOCKET
	13A DOUBLE SOCKET
	15A SINGLE SOCKET
	DISTRIBUTION BOARD
	EXHAUST FAN
	TP ISOLATOR
	SP ISOLATOR

DRAWING TITLE:

GROUND FLOOR POWER LAYOUT

DATE: 30/09/2023

IT DESIGN:

SOLIS IT SOLUTIONS SARL TECH ARCHITECTS

PROJECT:

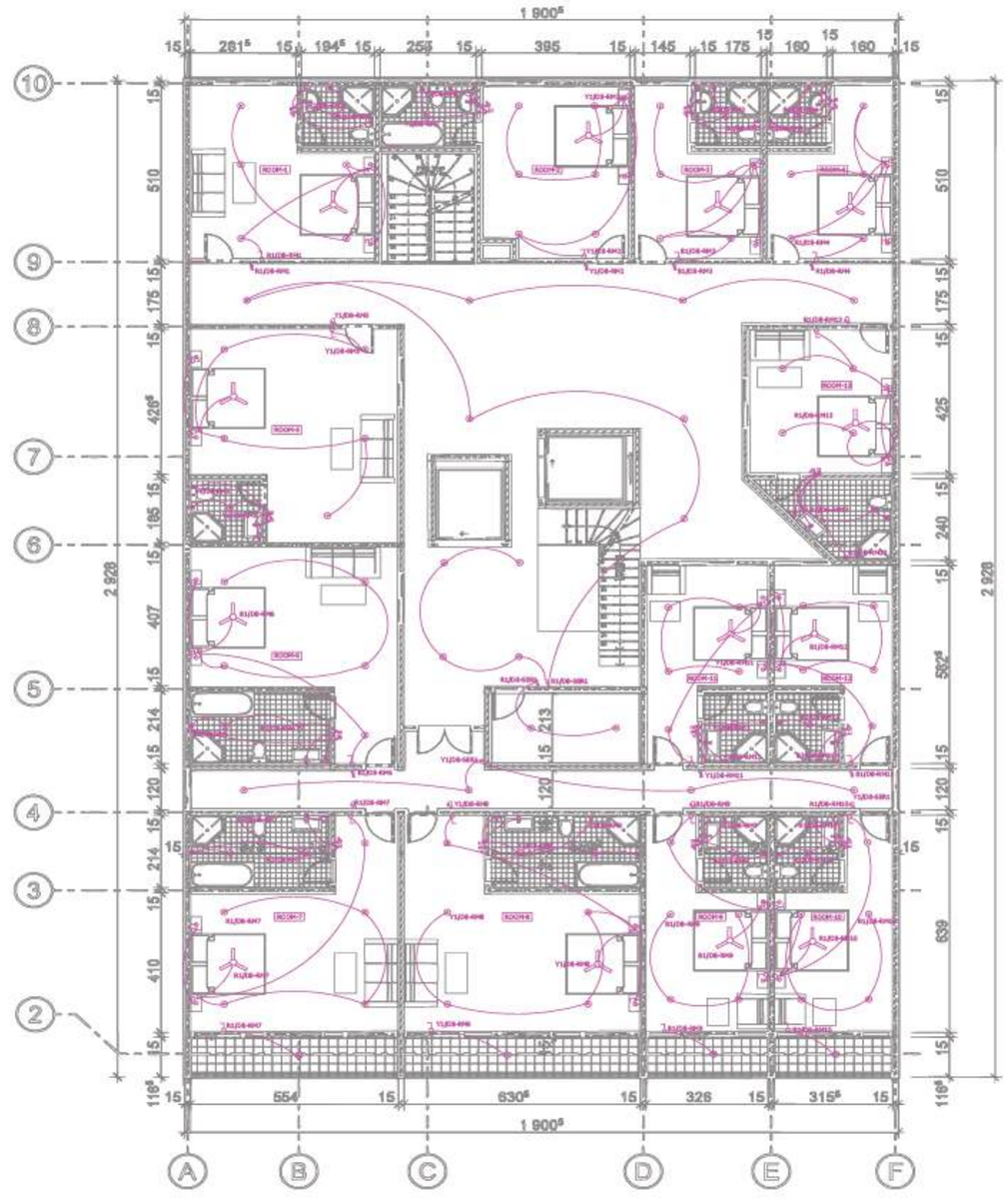
SASHA SMART HOTEL

Kaloum, Conakry

ELECTRICAL CONTRACTOR:

JUMADAD LIGHTING EQUIPMENT LLC

FIRST FLOOR LIGHTING LAYOUT



LEGEND:

	30A DP SWITCH
	BELL SWITCH
	1-GANG SWITCH
	2-GANG SWITCH
	3-GANG SWITCH
	20W DOWN LIGHT
	18W WALL LIGHT/ MIRROR LIGHT
	CEILING FAN
	20W WEATHERPROOF TUBELIGHT
	5W SPOT LIGHT
	20W DOWNLIGHT
	60*60 PANEL LIGHT
	WATER HEATER
	13A SINGLE SOCKET
	13A DOUBLE SOCKET
	15A SINGLE SOCKET
	DISTRIBUTION BOARD
	EXHAUST FAN
	TP ISOLATOR
	SP ISOLATOR

DRAWING TITLE:

FIRST FLOOR LIGHTING LAYOUT

DATE: 30/09/2023

IT DESIGN:

SOLIS IT SOLUTIONS SARL TECH ARCHITECTS

PROJECT:

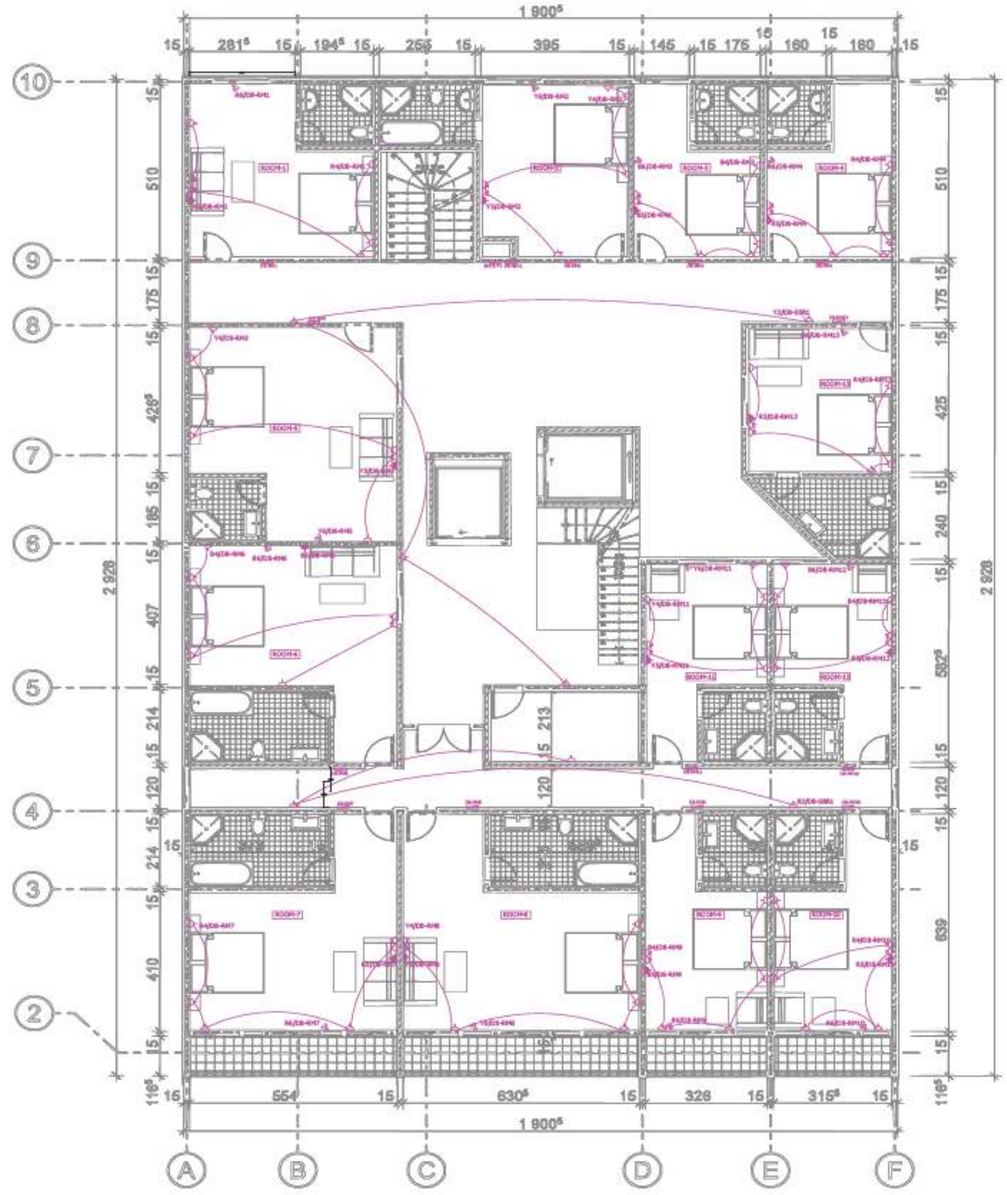
SASHA SMART HOTEL

Kaloum, Conakry

ELECTRICAL CONTRACTOR:

JUMADAD LIGHTING EQUIPMENT LLC

FIRST FLOOR POWER LAYOUT



LEGEND:

	20A DP SWITCH
	BELL SWITCH
	1-GANG SWITCH
	2-GANG SWITCH
	3-GANG SWITCH
	30W DOWN LIGHT
	15W WALL LIGHT/ MIRROR LIGHT
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FIRST FLOOR POWER LAYOUT

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IT DESIGN:

SOLIS IT SOLUTIONS SARL TECH ARCHITECTS

PROJECT:

SASHA SMART HOTEL

Kaloum, Conakry

ELECTRICAL CONTRACTOR:

JUMADAD LIGHTING EQUIPMENT LLC

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BILL OF QUANTITY

ELV SYSTEM

SN	BRAND	DESCRIPTIONS	QTY
Stractured cabling System DATACOM/Hikvision CAT6			
Meterial Supply Cost = Section 1			
	Hikvision	CAT6 Cable UTP 23 AWG	120
	DATACOM	CAT6 KeyStone user Side	600
	DATACOM	CAT6 Keystone Server Side	600
	DATACOM	CAT6 1 U Patch Pannel Un load	30
	FISCO	CAT6 12 CM meter Patch Cord	600
	DATACOM	CAT6 1 meter Patch Cord	600
	DATACOM	CAT6 2 meter Patch Cord	600
	DATACOM	Cable manager	30
	DATACOM	CAT6 Face Plate User Side	600
	DATACOM	Floor Shuter	100
	DATACOM	42 U Server Rack 800 x 800	1
	DATACOM	32 U Server Rack WallMount 600 x 600	2
	DATACOM	12 CORE MULTIMODE OM3 CABLE INDOOR /OUTDOOR	250
	DATACOM	24 Port Patch Pannel	3
	DATACOM	OM3 Pig tile	48
	DATACOM	LC LC Adaptor	24
	DATACOM	LC LC Patch Cord 2 meter	24
	DATACOM	Splice Tube	100
Installation and Testing Commisining Cost = Section 2			
	LS	Cat6A cable Pulling End to End	600
	LS	CAt6 A Cable Termination user side and server Side	600
	LS	Fiber Cable pulling	250
	LS	Fiber Splicing and Testing, labelling	48
	LS	Server Rack Fixing	3
	LS	Drawing and Documention	1
	LS	Labelling and test Report	600

CCTV System HIKVISION			
Meterial Supply Cost = Section 3			
	Hikvision	4 MP Dome Camera	35
	Hikvision	4 MP Bullet Camera	35
	Hikvision	4 MP Bullet Camera VF	5
	Hikvision	4 MP Dome Camera VF	5
	Hikvision	4 MP 1.6 Mm Lift Camera	2
	Hikvision	32 CH NVR with 4 SATA Support	3
	WD	8 TB HDD WDR	12
	Samsung	55" Monitor Samasung	3
	A-TEN	HDMI Cable 20 meter A-Ten	3
		LIFT Cable Cat 6	1
	TBA	Mount bracket	50
	APC	UPS SYSTEM 5 KVA	1
	APC	UPS SYSTEM 2 KVA	2
Installation and Testing Commisining Cost = Section 4			
	LS	Camera Fixing	82
	LS	Camera Focussing and Installation	72
	LS	NVR Configuration	3
	LS	UPS Installation and Switch Mouting	3
	LS	Drawing and Documention	1

WIFI System			
Meterial Supply Cost = Section 5			
	Rujie	Wifi 6 Access Point For Hotel Guest Room	85
	Rujie	Wifi 6 Access Point For Commen Area	15
	Rujie	Wifi 6 Out Door Access Point	5
	Rujie	48 Port POE Switch SFP 10 G	17
	Rujie	24 Port SFP Switch 10 G full port	1
	Rujie	Power Adaptor For 24 Port SFP Switch 10 G full port	1
	Rujie	SFP Module 10 G	34
	Datacom	OM4 Fiber MM PAtch Cord 3 Mtr	22
	Fortinet	FortiNet FG100F 22 x GE RJ45 ports),4 SFP ports, 2x 10G SFP+ FortiLinks	1
			Section 5 (Total)
Installation and Testing Commisining Cost = Section 6			
		Wifi Fixing	105
		Switch and Firewall Fixing	1
		Firewall configuration, VLAN Configuraiton	1
		Drawing and Documention	1

Telephone System			
Meterial Supply Cost = Section 7			
	EricssonLG	eMG800-PAC-AS EricssonLG with 1200 ports capacity	1
	EricssonLG	MG-SLIB24 24 port Analogue Extension Interface - RJ45 type termination	4
	EricssonLG	eMG800-FIDELIO Fidelio PMS Interface License for eMG800 (per System)	1
		eMG800-HOTEL Hotel Feature License for eMG800 (per System)	2
		AAX-4100 Trimline Single-Line AnalogTelephone with keypad on the handset	82
		ASP-6110-S/ASP-6110-SF – Single-Line Analog Corded Speakerphone	95
		AEI001 Face Plates and Printing Charges / each phone	138
		AEI002 NRE Faceplate setup cost for three colour printing per model	2
		MG-DTIB24 24 port Digital Extension Interface - RJ45 Termination	2
		LDP-9208D Digital phone, Black	10
		LDP-9224D Digital phone, Black	2
Installation and Testing Commisining Cost = Section 8			
		Telephone Fixing and isntllation	1
		Telephone Programming and Configuration	1

IP TV Solutions			
Meterial Supply Cost = Section 9			
		IP TV System	1
		TV 55 Inch AND BRACKET	92
Installation and Testing Commisining Cost = Section 10			
		System Setup / Installation / Training / Documentation and Professional Services, INCLUDING TV FIXING AND All	1
			Section 10 (Total)
GRMS			
Meterial Supply Cost = Section 11			
		GRMS System	1
		Enclosure Box	85
		CAT6 Cable and Accessories	1
		Lock Integration Smock System Integrataion	1
Installation and Testing Commisining Cost = Section 12			
		Cable pulling for unit	425
		Device Fixing and Userside Pannel Fixing	1
		GRMS Pannel Programming	1
		Drawing and testing Comminsing	1
			Section 12 (Total)
Conduit Work			
Meterial Supply Cost = Section 15			
		PVC Conduit 25 Mm	1
		Gi Try 100 Mm	1
		PVC Accessories	1
		GI Accessories	1
		3 x 3 Box	1
Installation and Testing Commisining Cost = Section 16			
		PVC Piping for all Floor	1
		Tray Work	1

ELECTRICAL

S/L	Item	Qty
1	**Wiring and Installation of light points**	963
2	**Wiring and installation of Exhaust fan in washroom**	82
3	**Wiring and installation of Ceiling fan**	82
4	**Wiring and Installation of 13A Single Socket**	469
5	**Wiring and Installation of 13A Double socket**	163
6	**Wiring and installation of 13A W/P Single sockets**	5
7	**Supply, wiring and installation of door bell.**	78
8	**Wiring and installation of water heater points**	83
9	**Supply & Installation of 20A Sign board isolators**	3
10	**Supply,Wiring and Installation of TP Isolators for Exhaust Fan**	2
11	**Supply & Installation of 25A W/P isolators for A/C units.**	90
12	**Supply and installation of isolators for transfer pump**	1
13	**Supply and installation of isolators for booster pump**	1
14	**Supply and installation of isolators for lift**	2
15	**Supply & Installation of Electrical Containment including GI cable tray & trunking.**	1

S/L	Item	Qty
16	**Supply and installation of single phase DB for each room**	78
17	**Supply and installation of service DB**	2
18	**Supply and installation of DB-G**	1
19	**Supply and installation of DB-RESTAURANT**	1
20	**Supply and installation of SMDB-G**	1
21	**Supply and installation of LV Panel** • Incomer- 1600A 4P ACB 65kA - 2 Nos. (ATS) • Measuring instruments - PF Meter, KWh Meter, Ammeter & Voltmeter. • Outgoings - 630A TP MCCB 36kA - 1 No. 250A TP MCCB 36kA - 1 No. 200A TP MCCB 36kA - 6 Nos. • Enclosure- Form IV.	1
22	**Supply and installation of 250kVAR Capacitor bank**	1
23	**Supply and installation of 4C x 185mm XLPE/SWA/PVC armored cable+ 1C x 95mm Y/G from LV Panel to Capacitor Bank**	10
24	**Supply and installation of 4C x 95mm XLPE/SWA/PVC armored cable+ 1C x 50mm Y/G from LV Panel to SMDB-G**	10
25	**Supply and installation of 4C x 70mm XLPE/SWA/PVC armored cable + 1C x 35mm Y/G from LV Panel to SMDB-F on each floor**	264
26	**Supply and installation of 4C x 25mm XLPE/SWA/PVC armored cable + 1C x 16mm Y/G from SMDB-G to DB-G and DB-RES**	75
27	**Supply and installation of 4C x 10mm XLPE/SWA/PVC armored cable + 1C x 10mm Y/G from SMDB-G to isolator for lift at roof floor**	128
28	**Supply and installation of 3C x 10mm XLPE/SWA/PVC armored cable from SMDB-F to each room at floor 1 to 6**	2263
29	**Travel expense**	1
30	**Wiring and installation of light and heater points with GRMS provision for each room.**	78

GRMS

Item Code	QTY	UOM	Description
			Hardware
GS31.05-E000x0	85	PCS	Flat 2.0 Series Smart Glass Switch panel having 05 icon .
GS31.06-E000x0	170	PCS	Flat 2.0 Series Smart Glass Switch panel having 06 icon .
TAG31-E0T0x1	85	PCS	Flat 2.0 Series Smart Thermostat panel with with inbuilt temperature sensor, built-in motion sensor.
RCU2-C2A01	85	PCS	Master Room Control Unit for lighting, thermoregulation, access control and curtain control functions. 16 relay outputs, 16 configurable digital input/ouput, 2 analog 0/10V outputs, one powered output for door electric strike, and one TCP/IP ethernet port. Din Rail mounted.
IZT-A02	85	PCS	Zigbee Antenna / DIN rail mounted to be connected on RCU BUS 4
TCP4851-A2	1	PCS	Single port RS485 to TCP/IP converter
TRF-A3A35A	85	PCS	Room Power Supply unit- 230Vac input to 24Vac output - 35VA; Din Rail mounted
STB-10	170	PCS	Flush mounting magnetic contact for doors/windows (STB-10)
MS-A01	170	PCS	Ceiling PIR Presence Detector 12-24VAC/DC and open collector output IP40 rated (EBDMR-PRM-LV-OC)
K-RCU2-C2A01	85	PCS	Connectors Kit for RCU2-C2A01 (will be delivered as individual components)
IDPG-O5	85	PCS	Corridor Status Indication Panel, with backlit room number signage
			Software License Kits
LIC-P03-02	85	PCS	Core software package license for EMS Advanced+ (Motion, Door contact, Window contact and controlled power to room)
DSB-X01-02	85	PCS	Software license for control & monitoring - Dashboard (Basic)
PMS-X01-02	85	PCS	Software license for PMS Integration with Oracle
LRL-X99-02	85	PCS	Software license for FoH door access control system - Vendor not defined
			Setup Services
PRT-CUST	2	PCS	Serigraphic customization charges
SVC-A05	3	EA	Remotely addressed Software & Integration Setup for: PMS, ACS

PMS

Item & Description	SKU	Quantity
RMS Hotel, Enterprise Per Key Fee Property Management System, unlimited concurrent users in a enterprise database, fee is calculated per key, per month.		73
RMS Online Per Key Fee Per Key Fee per month for unlimited reservation made, modified or cancelled via the RMS Channel Manager from any available interfaced OTA or Distribution partner.		73
RMS Channel Manager Included in Per Key Pricing		1
RMS IBE Internet Booking Engine Included in the Per-Key Pricing		1
Guest Portal Included in the Per-Key Pricing		1
House Keeping Portal Included in Per Key Pricing		1
Set Up and Training Fee Full PMS & POS Implementation and Set Up along with 20 Hours of Remote Training		1
SwiftPOS - Touch Software SwiftPOS Touch Software including Table Designer and Floor Plan, EFTPOS Interface and Kitchen Video (price per POS for Touch/Tablet)	SKU NA - SwiftPOS	3
RMSPOS - API Front Office Interface API Front Office Interface	APIFO	1
Hotel-SwiftPOS Installation, Setup & Training - 3 Hours Setup and training of retail and inventory management software.		1
RMSPOS Back Office PC User	ePOS - SP-BACK OFFICE	1

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TECHNICAL DATA SHEET

DS-7732NXI-K4
32-ch 1.5U K Series AcuSense 4K NVR

Key Feature

- Up to 32-ch IP camera inputs
- H.265+/H.265/H.264+/H.264 video formats
- Up to 2-ch@12 MP or 3-ch@8 MP or 6-ch@4 MP or 12-ch@1080p decoding capacity
- Up to 256 Mbps incoming bandwidth
- Adopt Hikvision Acusense technology to minimize manual effort and security costs

▪ Specification

Intelligent Analytics	
AI by Device	Facial recognition, perimeter protection, motion detection 2.0
AI by Camera	Facial recognition, perimeter protection, video structuralization, throwing objects from building, motion detection 2.0, VCA
Facial Recognition	
Facial Detection and Analytics	Face picture comparison, human face capture, face picture search
Face Picture Library	Up to 16 face picture libraries, with up to 20,000 face pictures in total (each picture ≤ 4 MB, total capacity ≤ 1 GB)
Facial Detection and Analytics Performance	1-ch, 8 MP
Face Picture Comparison	4-ch face picture comparison alarm
Motion Detection 2.0	
By Device	All channels, up to 4 MP (when enhanced SVC mode is enabled, up to 8 MP)
By Camera	All channels
Perimeter Protection	
By Device	Up to 2-ch 4 MP (HD network camera, H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm
By Camera	All channels
Video and Audio	
IP Video Input	32-ch
Incoming Bandwidth	256 Mbps
Outgoing Bandwidth	160 Mbps
HDMI Output	1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
VGA Output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz
Video Output Mode	HDMI/VGA independent output
CVBS Output	N/A
Audio Output	1-ch, RCA (Linear, 1 KΩ)
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 KΩ, using the audio input)

DS-2CD1043G0-I
4.0 MP IR Network Bullet Camera

HIKVISION

Camera	
Image Sensor	1/3" progressive scan CMOS
Min. Illumination	Color: 0.01 Lux @(F1.2, AGC ON), 0.028 Lux @ (F2.0, AGC ON)
Shutter Speed	1/3 s to 1/100, 000 s
Slow Shutter	Yes
Auto-Iris	No
Day &Night	IR cut filter
DNR (Digital Noise Reduction)	3D DNR
WDR (Wide Dynamic Range)	120 dB
Angle Adjustment (Bracket)	Pan: 0° to 360°, tilt: 0° to 180°, rotation: 0° to 360°
Lens	
Focal Length	2.8 mm, 4 mm, 6 mm
Aperture	F2.0
Focus	No
FOV	2.8 mm, horizontal FOV 100°, vertical FOV 55°, diagonal FOV 117° 4 mm, horizontal FOV 77°, vertical FOV 42°, diagonal FOV 88° 6 mm, horizontal FOV 51°, vertical FOV 28°, diagonal FOV 58°
Lens Mount	M12
IR	
IR Range	Up to 30 m
Wavelength	850 nm
Compression Standard	
Video Compression	Main stream: H.265/H.264 Sub stream: H.265/H.264/MJPEG
H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Main stream supports
H.265 Type	Main Profile
H.265+	Main stream supports
Video Bit Rate	32 Kbps to 8 Mbps
Smart Feature-set	
Region of Interest	1 fixed region for main stream and sub-stream
Image	
Max. Resolution	2560 × 1440
Main Stream Max. Frame Rate	50Hz: 20fps (2560 × 1440), 25fps (2304 × 1296, 1920 × 1080, 1280 × 720) 60Hz: 20fps (2560 × 1440), 30fps (2304 × 1296, 1920 × 1080, 1280 × 720)
Sub-stream Max. Frame Rate	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Image Enhancement	BLC, 3D DNR
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser
Day/Night Switch	Auto, scheduled
* Note: The frame rate of the sub-stream cannot exceed the maximum frame rate of the current main stream.	

DS-2CD1143G0-I
4 MP Fixed Dome Network Camera

HIKVISION

- High quality imaging with 4 MP resolution
- Efficient H.265+ compression technology
- Clear imaging even with strong back lighting due to 120 dB WDR
- Water and dust resistant (IP67) and vandal resistant (IK10)
- EXIR 2.0: advanced infrared technology with long IR range

Specification

Camera	
Image Sensor	1/3" progressive scan CMOS
Min. Illumination	Color: 0.01 Lux @(F2.0, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 s to 1/100, 000 s
Slow Shutter	Yes
Wide Dynamic Range	120 dB
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°
Lens	
Focal Length & FOV	2.8 mm, horizontal FOV 98.0°, vertical FOV 53.1°, diagonal FOV 114.7° 4 mm, horizontal FOV 78.7°, vertical FOV 43.1°, diagonal FOV 92.3°
Lens Mount	M12
Focus	Fixed
Aperture	F2.0
Illuminator	
IR Wavelength	850 nm
IR Range	Up to 30 m
Video	
Max. Resolution	2560 × 1440
Main Stream	50 Hz: 20 fps (2560 × 1440) 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2560 × 1440) 30 fps (1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Video Compression	Main stream: H.265/H.264 Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main stream supports
H.265+	Main stream supports
Region of Interest (ROI)	1 fixed region for main stream

WD Purple™

PRODUCT BRIEF **SURVEILLANCE HARD DRIVE**

Specifications

	8TB	6TB	6TB	4TB	4TB
Model Number	WD84PURZ	WD64PURZ	WD63PURZ	WD43PURZ	WD42PURZ
Formatted capacity[1]	8TB	6TB	6TB	4TB	4TB
Form factor	3.5 inch	3.5 inch	3.5 inch	3.5 inch	3.5 inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
Recording Technology	CMR	CMR	CMR	CMR	CMR
RoHS compliant[2]	Yes	Yes	Yes	Yes	Yes
Product Features					
Cameras supported[3]	Up to 64 HD	Up to 64 HD	Up to 64 HD	Up to 64 HD	Up to 64 HD
Maximum Drive Bays Supported	16	16	16	16	16
Firmware Feature Name	AllFrame	AllFrame	AllFrame	AllFrame	AllFrame
Tarnish resistant components	Yes	Yes	Yes	Yes	Yes
RV Sensors	Yes	Yes	Yes	Yes	Yes
Performance					
Interface transfer rate (max)[4]					
Buffer to host	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Host to/from drive (sustained)[5]	194 MB/s	180MB/s	175MB/s	180MB/s	175MB/s
Cache (MB)[6]	128	256	256	256	256
Reliability/Data Integrity					
Load/unload cycles[7]	300,000	300,000	300,000	300,000	300,000
Annualized workload rating[8]	180TB/yr	180TB/yr	180TB/yr	180TB/yr	180TB/yr
Non-recoverable read errors per bits read	<1 in 10^14	<1 in 10^14	<1 in 10^14	<1 in 10^14	<1 in 10^14
MTBF[9]	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Limited warranty (years)[5]	3	3	3	3	3
Power Management[10]					
Average power requirements (W)					
Read/Write	6.2	4.7	4.6	4.7	4.6
Idle	5.5	4.3	3.7	4.3	3.7
Standby and Sleep	0.4	0.3	0.3	0.3	0.3
Environmental Specifications					
Temperature (°C, on the base casting)					
Operating	0 to 65	0 to 65	0 to 65	0 to 65	0 to 65
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)					
Operating (2 ms, read/write)	30	30	30	30	30
Operating (2 ms, read)	65	65	65	65	65
Non-operating (2 ms)	250	250	250	250	250
Acoustics (dBA)					
Idle	25	23	23	23	23
Seek (average)	30	27	27	27	27
Physical Dimensions					
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.78/147	5.78/147	5.78/147	5.78/147	5.78/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb/kg, ± 3%)	1.58/0.72	1.25/0.57	1.25/0.57	1.25/0.57	1.25/0.57

Product datasheet

Specifications

APC Easy UPS On-Line SRV RM Ext. Runtime 2000VA 230V with Rail kit Batt pack

SRV2KRILRK

General

Number of power module filled slots	0
Number of power module free slots	0
Redundant	No

Physical

Colour	Black (RAL 7010)
Height	17.2 cm
Width	43.7 cm
Depth	63.2 cm
Net weight	51.7 kg
Mounting location	Front
Mounting preference	Lower
Mounting mode	Rack-mounted
USB compatible	No
Mounting position	Horizontal

Input

Input voltage limits	110...285 V half load 160...280 V full load
Network frequency	40...70 Hz auto sensing

Output

Maximum configurable power in VA	2000 VA
Maximum configurable power in W	1600 W
Output frequency	50/60 Hz +/- 3 Hz sync to mains
Harmonic distortion	3 %
UPS type	Double conversion online
Wave type	Sine wave
Efficiency	88 % (full load)
Additional information	Configurable for 220 : 230 or 240 nominal output voltage
Bypass type	Internal bypass (automatic and manual)
Crest factor	3 : 1

APC Smart-UPS RT 5kVA 230V

SRTG5KXLI

Overview

Lead time	Usually in Stock

Main

Main Input Voltage	230 V
Other Input Voltage	220 V 240 V
Main Output Voltage	230 V
Other Output Voltage	220 V 240 V
Rated power in W	5000 W
Rated power in VA	5000 VA
Output connection type	2 IEC 60320 C13 1 IEC 60320 C19
Output connector type	Hard wire 3-wire (H N + E) 1
Battery type	Lead-acid battery
Provided equipment	Smart UPS signalling RS-232 cable User manual USB cable

Batteries & Runtime

Number of battery filled slots	2
Number of battery free slots	0
Battery recharge time	4 h
Number of battery replacement quantity	1
Additional information	Configurable for 220 : 230 or 240 nominal output voltage
Battery voltage	+/- 96 V
Battery charger power	239 W rated
Battery power in VAH	960 VAh capacity 960 VAh runtime
Battery life	3…5 year(s)
Replacement battery	APCRBC170
Battery option	SRTG192XLBP4 1 2651 VAh SRTG192XLBP4 2 4424 VAh SRTG192XLBP4 3 6314 VAh

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Front

Rear

General Description

- Aluminum profiled frame server cabinet, Light weight and easy to transport.
- Tempered glass front door and vented rear door with excellent ventilation;
- Removable side panels, with lock optional;
- Adjustable cable entry on top and bottom cover;
- Flat packing is available

Standard	Comply with ANSI/EIA RS-30-D,IEC297-2,DIN4491,PART1,PART7,ETSI SANDARD
Material	FRAME: Aluminium; SPCCquality old rolled steel: Mountingprofile; Thickness 2.0mm; Others1.2mm; Tempered glass : Thickness :5mm
Loading Capacity	Static Loading : 800kg (On the Adjustable Feet)
Degree of Protection	IP20
Surface Finish	Degreasing, Pickling, Phosphating, Powder Coated
Product Specification	18U-47U
	Width: 600mm, 800mm.
	Depth: 600mm, 800mm, 900mm, 1000mm, 1200mm

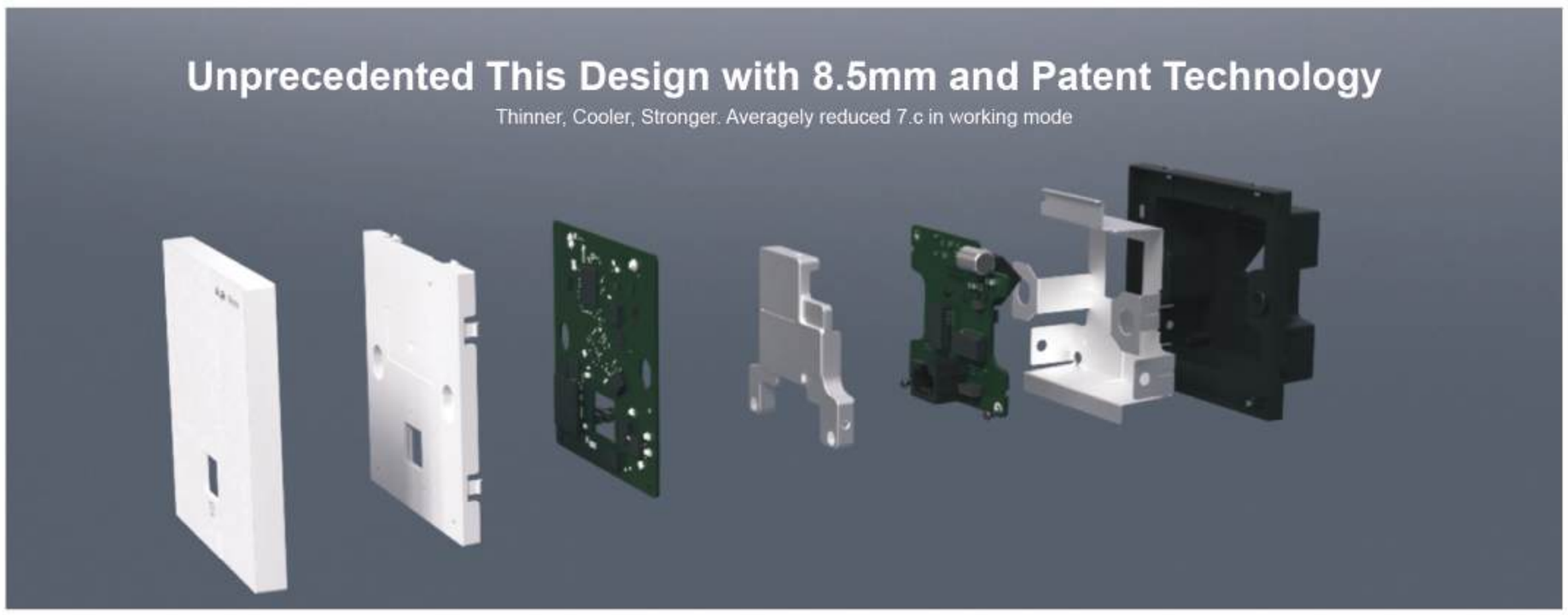
Ruijie | Reyee

RG-RAP1261

Reyee Wi-Fi 6 AX3000 Ultra-Thin Wall Plate Access Point

DATASHEET

Highlight Features



Highlight Features

Ruijie | Reyee

RG-RAP2260 Series

Reyee Wi-Fi 6 AX3200/AX1800 Indoor Access Point

DATASHEET

Highlight Features

Boost You Internet Speed with 2.5Gbps Uplink

Build network for future, protect your investments.

Easily Set Up Your Wi-Fi 6 Network in 3 Minutes

With SON (Self-organizing Network) technology, easily set up a whole Wi-Fi network by Ruijie Cloud APP.

Ruijie | Reyee

RG-RAP6262(G)

Reyee Wi-Fi 6 AX1800 Outdoor Omni-directional Access Point

DATASHEET

Highlight Features

RG-S6120 Series
Switches

Front View of the RG-S6120-20XS4VS2QXS

Product Specifications

Hardware Specifications

Hardware Specifications	RG-S6120-20XS4VS2QXS
Interface Specifications	
Fixed port	20 x 1G/2.5G/10G SFP+ ports, 4 x 10G/25G SFP28 ports, 2 x 40G QSFP+ ports One switch provides a maximum of 32 x 10G ports, 2 modular power slots, and 2 modular fan slots.
Fan module	2 x pluggable fan modules, and fan speed regulating and alarm function
Power modules	2 x power module slots
Fixed management ports	1 x MGMT port, 1 x console port, and 1 x USB 2.0 port
System Specifications	
Packet forwarding rate	570 Mpps/1,260 Mpps
System switching capacity	2.56 Tbps/25.6 Tbps
Number of MAC addresses	Number of global MAC addresses: 32,768 Number of static MAC addresses: 1,000
ARP table size	16,000
ND table size	4,000
Number of IPv4 unicast routes	16,000
Number of IPv4 multicast routes	4,000
Number of IPv6 unicast routes	16,000
Number of IPv6 multicast routes	2,000
Number of ACEs	Maximum number of ingress ACEs associated with an SVI, physical interface, or aggregate interface: 2,500 Maximum number of egress ACEs associated with an SVI, physical interface, or aggregate interface: 1,000
Number of VSU members	2
Number of IGMP groups	4,000
Number of MLD groups	1,024
Number of VRFs	100
Dimensions and Weight	
Dimensions (W x D x H)	442 mm × 330 mm × 43.6 mm (17.40 in. x 12.99 in. x 1.72 in.), 1 RU
Weight (full load)	5.7 kg (12.57 lbs)
CPU and Storage	
CPU	1.25 GHz ARM processor

ELECTRICAL

جمعةداد لادوات الانارة (ش.د.م.م)
Jvumadad lighting equipment l.l.c
P.O Box: 80127, Tel: 04 -2964608, Fax: 04-2546014

PROPOSED G+6+R .

PARTICULAR SPECIFICATION

S.No	Material	Make
1	MDBs/SMDBs/DBs G.I Box and Fittings.	Al Fanar
2	Cables. Wires for Lighting and Power	Ducab
3	PVC Conduits , PVC Flexible Conduits ,	Decoduct
4	PVC Coated Flexible G.I Conducts	Selectric
5	PVC Cable Trunking/PVC Duct	Decoduct
6	Metallic Cable Trunking	Bieco
7	Cable Trays and Ladders	Bieco
8	Cable gland and Accessories	Selectric
9	MCCB/ Change over Panel/Isolators	ABB
10	Weather proof isolators	ABB

Tmax, Isomax, Emax: Industrial IT enabled!

Industrial IT is the solution developed by ABB for the all-round integration of a company's activities, where each product is seen as part of a complete solution. Products and technologies are grouped into functional categories (Suites), each of which measures, controls, optimizes and supports a specific "block" of activities, and they can ensure coordinated interaction thanks to the platform created by ABB (AIP: Aspect Integrator Platform).

In addition to interactivity between certified products, every certified product also guarantees the ready availability of all the information needed for it to function - technical characteristics, installation instructions, use and maintenance instructions, environmental certificates and declarations, all updated to the latest version ... a considerable advantage for the user*.

The whole range of Tmax and Isomax molded case and Emax power circuit breakers has obtained Industrial IT certification and is fully entitled to join the Protesuite of products.

These circuit breakers combine with about 700 products in the ranges of distribution boards, thus enabling complete switchboards to be assembled using all IndustrialIT-certified components. Moreover, T4 and T5 feature e-plug communication interface, which allows Integration to Industrial IT systems.

Tmax, Isomax and Emax circuit breaker can be integrated with the configurable ABB products in a system: this compatibility has always been a fundamental premise of the ABB design process. Mass customization, i.e. the mass production of components customized to meet a given buyer's specific needs is already feasible, as IndustrialIT certification demonstrates.

Yet again, ABB is ahead of the field in offering a better and better customer service!

** All product technical data and related documentation can be found in Internet and is accessible to the customer. The standard documentation is in English, but there are local language versions for each country where a given product is marketed.*

For further information, go to the Products and services/Industrial section on our web site: http://www.abb.com

Weatherproof switches
and Socket Outlets

Socket Outlet:

- Modular socket design to accommodate vertical and horizontal installations
- Good elasticity and long lifespan as phosphor bronze integrated design for internal parts
- Sockets with safety shutter protection

Range features:

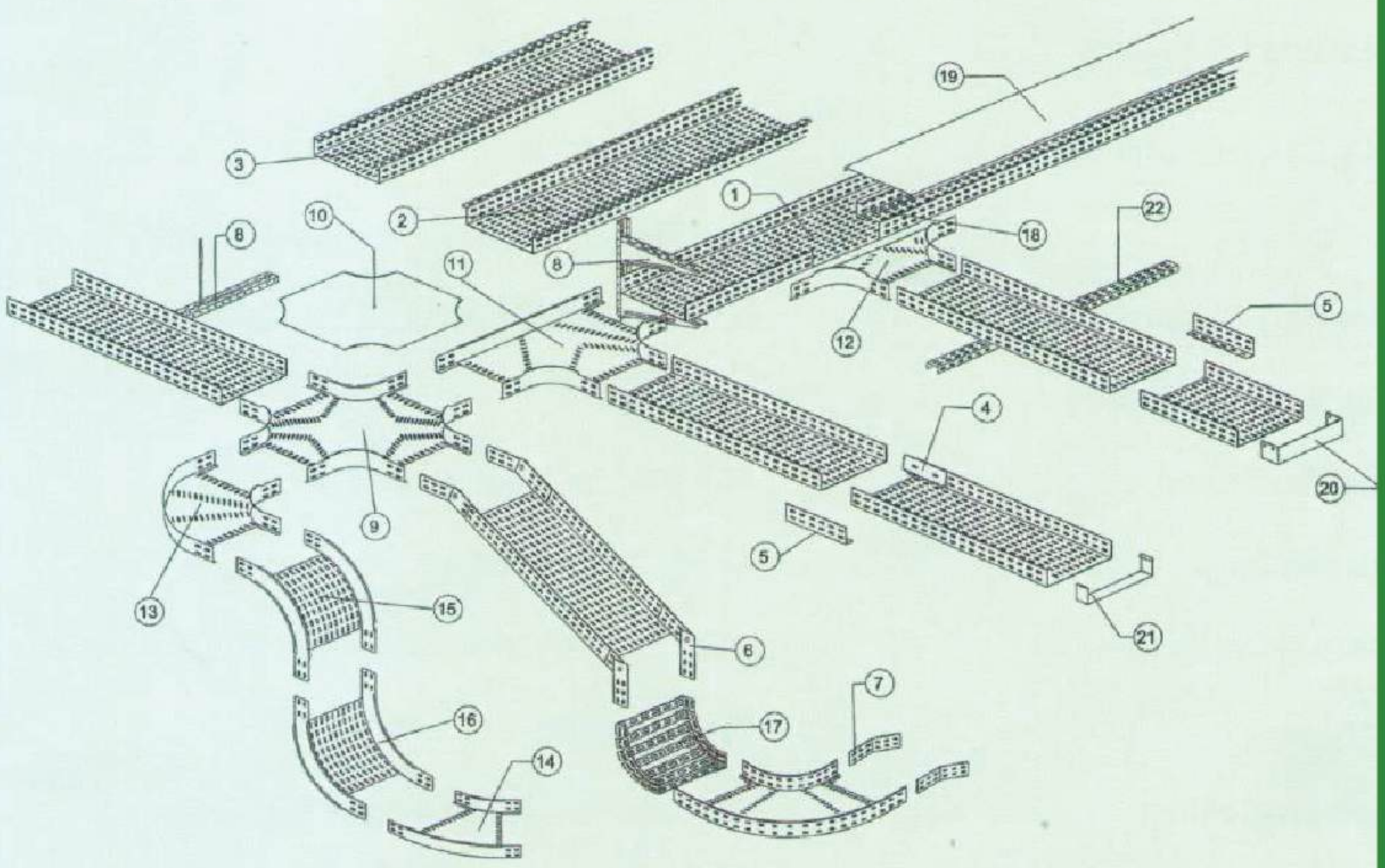
- Degree of protection IP66 prevents dust and powerful water jets
- Complies to outdoor applications
- Enclosure made of high quality PC materials and high temperature insulation
- Resistance to Ultra Violet (UV) radiation and anti-corrosion

Isolator:

- High reliability with 4500 A rated short-circuit making capacity for isolators
- Complete accessories for easy installation

BEICO

CABLE TRAY



1 - CABLE TRAY
2 - CABLE TRAY
3 - CABLE TRAY
4 - COUPLER
5 - CORNERED SPLICE PLATE
6 - HINGED SPLICE PLATE
7 - BENDABLE SPLICE PLATE
8 - SUPPORTS
9 - CROSS
10 - COVERS FOR CONNECTING UNITS
11 - Tee
12 - TAKE OFF
13 - 90° BEND
14 - 135° BEND
15 - 90° OUTSIDE BEND
16 - 90° INSIDE BEND
17 - SIMPLIFIED CONNECTING UNITS
18 - DIVIDER
19 - COVER
20 - END PLATE
21 - END CAP
22 - PERFORATED PROFILES

BEICO

BEICO CABLE TRAYS

Beico Cable Trays are manufactured in HI-TECH environment with latest state of the art machinery. Its unique design features provide ease during installation. Slot pattern along the sides of the tray help to be cut, coupled and connect with other tray easily. Its slots also allow for use of cable cleats and cable ties as well.

GENERAL INFORMATIONS

Material & Finish

Mill Galvanized Material	: Steel Sheet
	: Zinc Plated Pre - Galvanized to B. S. 2989
Hot Dip Galvanized After Fabrication (HDGAF)	: MILD Steel to ASTM A123, BS 729 & DIN50796, Standards
Stainless Steel	: AISI 304, 316 (Marrine Grade)
Aluminum	: Aluminum Alloy 6063
Deep Galvanized	: Deep Hot Dip Galvanized (HDGAF, Twice usual Zinc Thickness
Powder Coating	: Polyester Powder Coating on mild Steel in R.A.L. Colour
Epoxy Polyester Coating	: Epoxy Polyester Coating on mild Steel in R.A.L. Colour (This paint finish provide non flamable coating and hard adherent)
Standard Length of Tray	: 2440 & 3000 mm

Ducab دوكاب

أسلاك التمديدات الكهربائية المعزولة بمادة عديد كلوريد الفينيل

PVC Insulated Wiring Cables

حلول متقدمة للكابلات من خلال التقنية والابداع

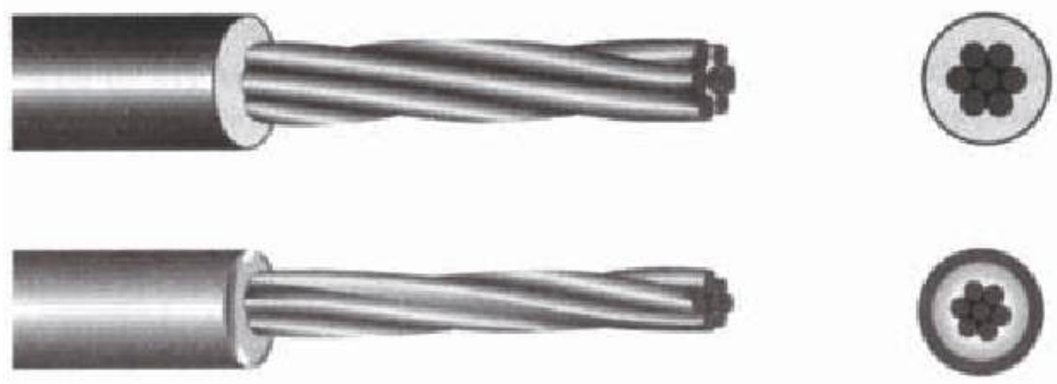
Advanced Cable Solutions Through Technology and Innovation

BICC

PRODUCT RANGE

This publication provides details of the following types of wiring cables:

6491X - Single core, PVC insulated non-sheathed cables, available in size range 1.5mm^2 to 630mm^2 and rated 450/750V. These cables can be considered to have a voltage rating up to 1000V a.c. when installed in fixed protected installations eg. lighting fittings and inside appliances, switchgear and control gear.



The above wiring cables conform to BS 6004 specification for "PVC insulated cables (non-armoured) for electric power and lighting". The cables also generally satisfy the International Specification IEC 60227 (6491 X only) and German standard VDE 0281 for "PVC insulated cables and cords with rated voltage not exceeding 750V"

CONSTRUCTION

CONDUCTORS

Wiring cable conductors are stranded, high conductivity plain annealed copper wires meeting the requirements of class 2 in BS 60228 and IEC 60228 specifications for "Conductors in insulated cables and cords". Wiring cables with solid copper conductors are offered up to 2.5mm^2.

INSULATION

The insulation of standard wiring cables is PVC grade Type TI 1 of BS 7655 (formerly BS 6746) suitable for a maximum continuous conductor operating temperature of 70˚C.

Where specifically required, wiring cables can be offered with heat resistant PVC insulation, Type TI 3 (90˚C).

CORE IDENTIFICATION

Unless specifically agreed otherwise, insulation colours are in accordance with BS 6004 specifications as follows:
Single Core: Red, Black, Blue, Green/Yellow, Brown, Grey.

Note: Insulation colors other than the above may be manufactured on customer request.

FINISH

Wiring cables have a smooth finish and are continuously marked with DUCAB by printing or embossing on the external surface.

Flat Thermostat Panels with Motion Sensor

Datasheet

Features

- 4 characters-7 segment LED display
- Touch buttons with the following control functions:
  - **a.** (+/-) setpoint real-time temperature control
  - **b.** 3 fanspeed toggle switch
  - **c.** Off mode
  - **d.** User setpoint display
  - **e.** Touch button to toggle between °C/°F display
- Simple installation
- Four energy saving setpoints based on guest presence and interface with property management system

***Available dimensions:**

- 95x95 mm
- 95x130 mm
- 115x130 mm
- 130x95 mm
- 130x130 mm
- 150x130 mm

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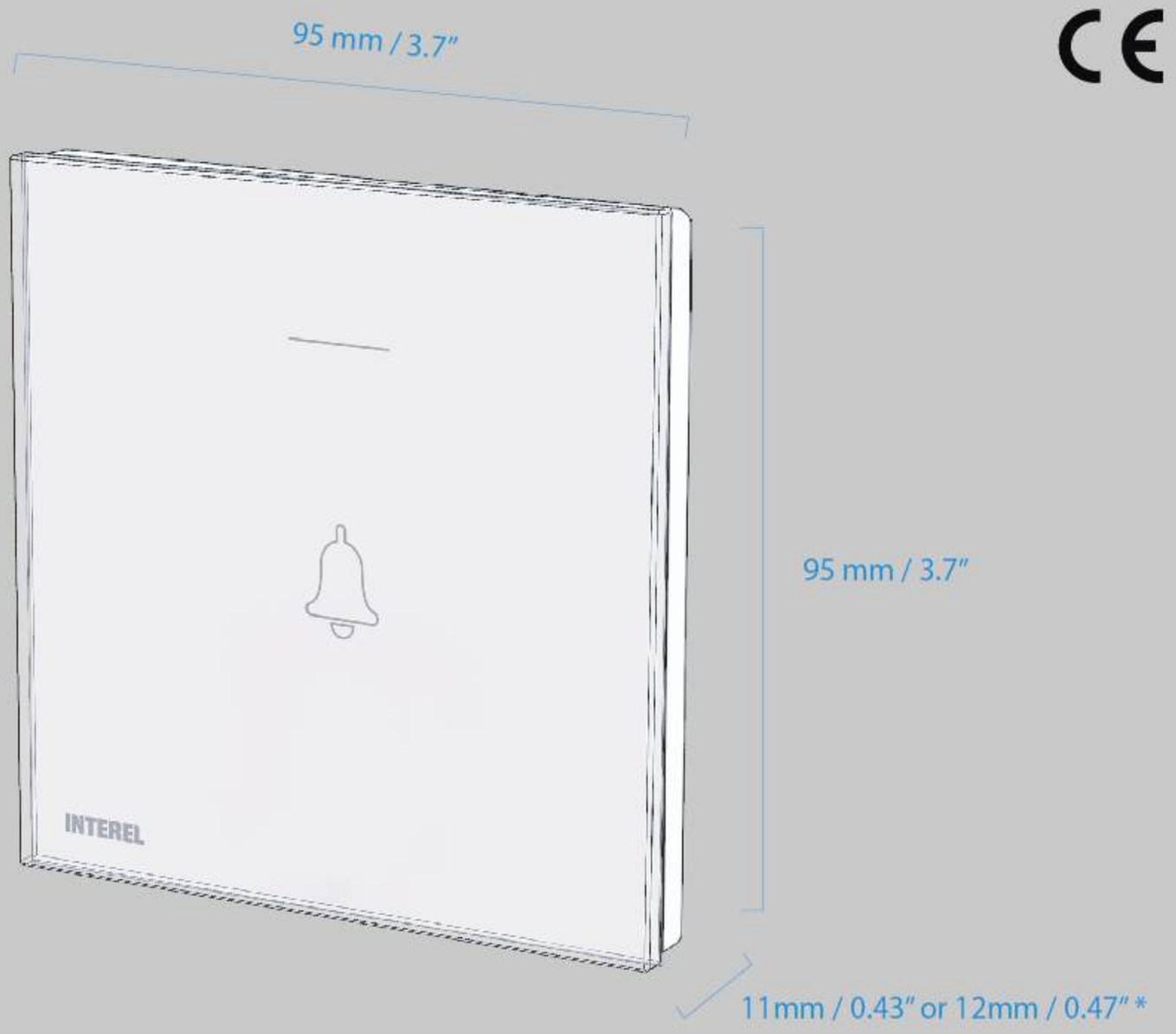
INTEREL

Flat Corridor Panel

Datasheet



Features

- Displays room status to indicate:
  - **a.** Privacy request (do not disturb)
  - **b.** Service request (make up room)
  - **c.** Other room services
- Bell button
- Wall mounted glass panel
- Design implemented on glass switches with a customized background and white backlit icons

- Optional features:

1. IoT multi-protocol radio for wireless IaaS and SaaS applications
2. Audio feedback
3. Extension for Room number display
4. Mechanical integration of 3rd party card readers

*all panels with magnetic fixing system are 12mm / 0.47" deep

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INTEREL

Flat Glass Switch (up to 9 buttons)

Datasheet

Features

- Up to 9 backlit capacitive touch big buttons for the following control functions:
  - **a.** On/off lighting control
  - **b.** Light dimming
  - **c.** Lighting scenes
  - **d.** Room services (DND, MUR, Custom Requests)
  - **e.** Curtain / drape control
- Simple Installation
- Wall mounted glass panel
- Design implemented on a range of 1 to 9 gang glass switches with a customized background and white backlit icons

- Optional features:

1. IoT multi-protocol radio for wireless IaaS and SaaS applications
2. Audio feedback
3. Proximity sensing
4. Temperature and/or Relative humidity sensor
5. Motion Sensor (PIR)
6. Extension for Wiring Accessories, 1 or 2 slots
7. Combination with other INTEREL panels possible (see Double Panel section)

*all panels with magnetic fixing system are 12mm / 0.47" deep

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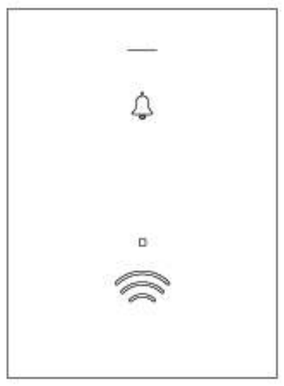
Available Variants

With room number
and card reader
5.1x10.4" / 130x263 mm



With card reader
5.1x7.1" / 130x180 mm

With room number
5.1x7.1" / 130x180 mm

Rectangular vertical
3.7 x 5.1" / 95x130 mm

Rectangular horizontal
5.1x3.7" / 130x95 mm

Square
3.7x3.7" / 95x95 mm

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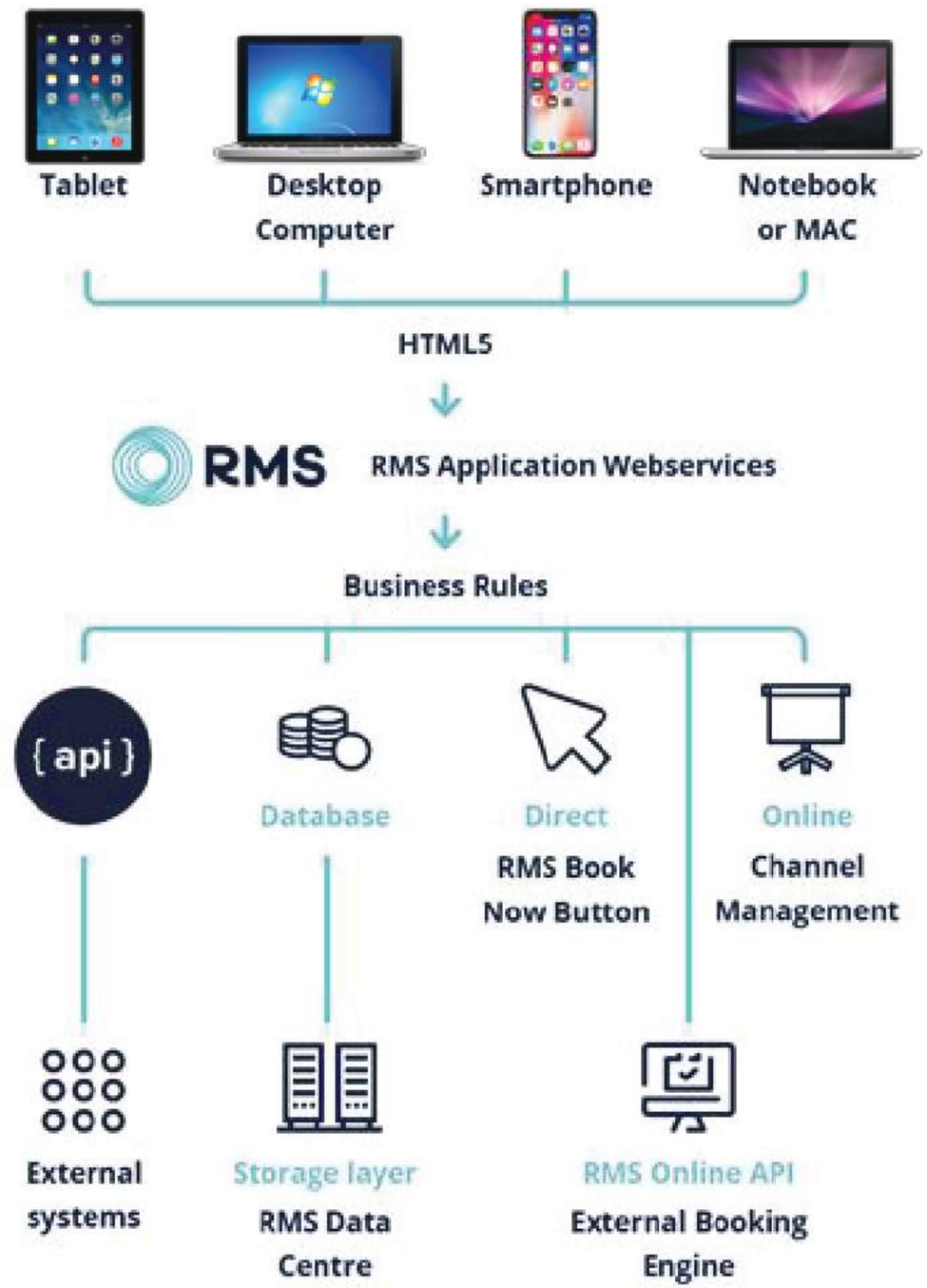
Intelligent Design

- Designed to operate on all devices
- Architecture that supports scalable operations
- Purpose built for mixed use enterprise groups
- State of the art hosting and security
- Not just an application – multiple layers of technology and infrastructure
- Hundreds of integrated partners
- Direct distribution to all online channels
- Receive data -driven insights with our enhanced reporting tools

PMS



COST PROPOSAL

ELV SYSTEM :	$ 878,650.00
ELECTRICAL SYSTEM :	$ 483,940.00
GRMS :	$ 175,860.00
PMS :	$ 15,800.00
SOFTWARE & INTEGRATION :	$ 57,000.00

$ 1,611,250.00

INCLUSIONS

- Supply & Installation of all ELV , Electrical, GRMS Systems
- 1 Year Free Maintenance
- 3 Year Warranty
- 6 Months System Training

EXCLUSIONS

- Electrical Swiches & fittings

Our Group...

DIGITAL TECHNOLOGY TRANSFORMATION

SOLUTION DESIGN & INTEGRATION

TECH ARCHITECTURE & DEVELOPMENT

ENGINEERING & INFRASTRCTURE

Our Partners...

CHINA

POLAND

UK

USA

INDIA

TURKEY

THANK
YOU.