

The Islamia University of Bahawalpur



**FRAME-WORK CONTRACT BIDDING DOCUMENT FOR
MANUFACTURERS / DISTRIBUTORS / SUPPLIERS ETC.**

(Networking and Misc Items for Directorate of IT)

Framework Contract for Procurement of Networking and Misc Items for Directorate of IT for the Year 2020-2022

Last date of submission: _____

1. Overview

The Islamia University of Bahawalpur intends to purchase “**Framework Contract for Procurement of Misc Networking and Miscellaneous Items for Directorate of IT for the Year 2020-2022**” as provided at **Tender A and B**

The supplier will be responsible for Supply, delivery and commissioning of all specified items, wherever required, at The Islamia University of Bahawalpur. This document provides complete instructions for bidders intending to participate in this Tender.

2. Instructions for Bidders

2.1. Response to the Tender (Bid) should be submitted in one part which shall include two separately sealed envelopes of Technical **Proposal and Financial Proposal** before **28.1.2021** on 11:00AM. Technical Proposals will be opened on same day at 11:30 AM in the presence of Bidders/representatives of the firms, if any, and Financial Proposals will be opened after completion of technical evaluation. The exact time and place for opening of financial proposals will be informed to technically qualified bidders.

2.3 Applicant shall submit consent to deliver goods / items for 24 months at the same price from the dated of award of the contract/ issuance of supply order.

Treasurer

The Islamia University of Bahawalpur

Tel. # 0629250245

2.4. Any queries regarding this proposal should be directed to the designated Contact Person listed above.

2.4. All bids must be submitted by filling the **Tender A and B**. same should be enclosed in the financial proposal. Bidder must use the same numbers and labels used in this Request for Proposal.

2.5. The original Tender Document duly signed and officially sealed by the bidder must be submitted in whole with the proposals. Any conditional, ambiguous, incomplete, supplementary or revised offer after the opening of tender shall not be entertained.

3. Technical Proposal Format

Bidders are required to include the following documents/information in their technical proposals in the order given below:

- i. The Name and Address
- ii. Profile of company
- iii. List of Previous/Current customers of related supply.
- iv. Detailed product information
- v. Copy of National Tax Registration Certificate
- vi. Copy of Sales Tax Registration Certificate
- vii. Bank Statement 06 months
- viii. An affidavit on Rs 100/- Stamp Paper that currently they are not blacklisted or de- barred by any Government/Semi-Government Department to participate in bidding and to supply equipment. Failure to submit such affidavit may lead to disqualification.
- ix. Any additional information the bidder may like to furnish e.g. repair/maintenance other concerned facility
- x. Detailed item specifications matched corresponding to the BOQ as given at **Tender A and B**
- xi. Detailed project implementation schedule/Completion Schedule which includes the delivery of items mentioned in the BOQ
- xii. Signed and stamped Tender document
- xiii. Bank Draft/Bank Guarantee of the Earnest Money

4. Financial Proposal Format

Financial Proposal must include the following in the order given below:

- i. Equipment prices duly entered on the form in the attached BOQ
- ii. Validity period of the quoted price
- iii. Any other Terms and Conditions

5. Terms & Conditions

- 5.1. This invitation for bids is open to all National original Manufacturers/ Distributors/Suppliers / Vendors in Pakistan for supply.
- 5.2. All prices should be quoted in Pak Rupees and inclusive of all Government Taxes & Levies.
- 5.3. A Bank Draft/Bank Guarantee equal to 2% of the estimated cost should accompany the Tender as **Earnest Money** drawn in favor of **Treasurer IUB**. The Tender shall not be considered without Earnest Money. Bank draft for Earnest Money should be placed with the Technical proposal.
- 5.4. Earnest Money for bidders not selected will be returned a minimum of two weeks after announcement of award and returned to successful bidder after signing the contract. If the selected bidder fails to sign the contract within stipulated time, Earnest Money will be forfeited.

- 5.5. A Bank draft of 5% of the total amount as **Performance Guarantee** will be provided by the supplier in favor of Treasurer IUB within 30 days after decision of award of contract along with judicial stamp paper of the value 0.25 % of total cost which shall remain valid for 24 months beyond delivery period. This performance guarantee will be released after the completion of warranty/guarantee period, along with the satisfactory completion report by the Directorate of IT
- 5.6. The quantity of an order may vary depending on the quoted prices and the allocated funds. University may procure or order for as many items it may desire or none at all as per the requirement
- 5.7. The decision of the Competent Authority will be binding on all concerned and will in no case be challenged in any forum.
- 5.8. IUB reserves the right to modify the conditions / specifications of the Tender Document with written intimation to all the participants who have purchased the Tender Document.
- 5.9. Delivery period will be as per terms and conditions of purchase order/supply order.
- 5.10. Delivery shall be completed according to the agreed upon schedule.
- 5.11. In case the selected bidder fails to execute the contract strictly in accordance with the terms and conditions laid down in the contract, the Performance Guarantee shall be forfeited.
- 5.12. The University will get the item inspected at IUB and reject the item, if not found according to the stated specifications.
- 5.13. In case of failure on the part of supplier to supply the items / goods as per specifications quantity or within the stipulated time without getting extension, penalty will be imposed on the supplier by The Islamia University of Bahawalpur as under:
- i. Delay of one week to handover the equipment as per specifications = 0.5% of the total cost of issued P.O
 - ii. Delay of two weeks to handover the equipment as per specifications = 1.0% of the total cost of issued P.O
 - iii. Delay of three weeks to handover the equipment as per specifications = 2.0% of the total cost of issued P.O
 - iv. Delay of four weeks to handover the equipment as per specifications = 4.0% of the total cost of issued P.O

Note: In case of delay beyond four weeks, the Islamia University of Bahawalpur reserves the right to impose penalty up to 10% of ordered value or cancel the order or both may be implemented at the same time.

- 5.14. It is the sole responsibility of the bidder to comply with local, national and international laws.

- 5.15.** In case any supplies/material is found not in conformity with the specifications provided in the tender, either on account of inferior quality, defective workmanship, faulty design, faulty packing or is short supplied, or wrongly supplied, the supplier will replace the same free of charges or pay the full cost of replacement.
- 5.16.** All the proposals submitted will become the property of the University.
- 5.17.** All prices should be valid for at least 120 days. Withdrawal or any modification of the original offer within the validity period shall entitle the IUB to forfeit the Earnest Money in favor of the IUB and/or putting a ban on the future inquires or taking any other suitable action against the bidder.
- 5.19.** Delivery of the items will be free of charge at IUB during the office hours with a copy of Delivery Challan.
- 5.20.** Items being ordered should be brand-new and according to order specification from the current production and covered under normal warranty/guarantee etc. as mentioned in the quote. Brochures mentioned and product details must be attached.
- 5.21.** Validity Period of Contract shall be up to two year.
- 5.22.** The items quantities against each items are tentative and, supply order will be issued as per requirement which may be increased or decreased or may not ordered any item at all.
- 5.23** University may select the whole proposal offered by vendor which is lowest or choose the individual items from lowest price.
- 5.24** Wherever a brand has been specified, equivalent will be entertained subject to technical evaluation according to PPRA Rules.

6. Tender Evaluation Criteria for tender -B

- a. All bids shall be evaluated on technical and financial merit. The Company Evaluation will be Performed by the IT Technical / Inspection Committee for IT items. Technical evaluation process will include Technical specifications of proposed item.
- b. Financial Evaluation process will be based on the consideration of the quoted price.

7. Undertaking

On behalf of the company it is certified that we agree to the all the Instructions and Terms & Conditions given in this Tender Document

Name of bidder.....

Authorized person.....

Authorized signature.....

Stamp.....

Office Address.....

Tel No

Fax

E-Mail

Company Evaluation Criteria

- i. Profile of company complete in all respect
- ii. List of Previous/Current customers, Purchase Orders of related Services with contact person and telephone/fax numbers.
- iii. Copy of National Tax Registration Certificate or Copy of Online Taxpayer Verification
- iv. Copy of Sales Tax Registration Certificate or Copy of Online Active Taxpayer
- v. Bank letter of financial standing /Bank Statement
- vi. An affidavit on Rs 100/- Stamp Paper issued after date of publishing of tender which illustrate that currently they are not blacklisted or de-barred by any Government/Semi Government Department to participate in bidding. Failure to submit such affidavit may lead to disqualification.
- vii. Detailed item specifications or Services matched corresponding to the BOQ as given at

Tender A and B

- viii. Proposed delivery, response time, plan for rendering service
- ix. Authorization Letter from Manufacturers where Applicable
- x. Signed and Stamped Complete Tender document
- xi. Bank Draft of the Earnest Money

Note: Basic Evaluation Criteria is mandatory to fulfill to qualify for detailed evaluation. Failure to meet and submit all documents related to basic evaluation may lead to disqualification. '



The Islamia University of Bahawalpur

TENDER NOTICE

INVITATION FOR BIDS

Sealed Tenders are invited from GST & Income Tax registered Manufacturer/Firms or their Authorized Distributors/Dealers/Suppliers for Supply of **Misc Networking and Misc Items**, for Directorate of IT of the Islamia University of Bahawalpur on FOR Basis as per detail given below:-

Tender -No.	Category (Specifications in Tender Documents)	Estimated Cost	02% Bid Security (CDR)
A	Misc Networking Items for Directorate of IT	Rs.123,350,000/-	Rs.2,467,000/-
B	Misc Items for Directorate of IT	Rs. 12,893,000 /-	Rs.257,860/-

- Interested bidders may get the Tender Documents containing detailed specifications, terms and conditions from the Purchase Section, Treasurer's Office Abbasia Campus, the Islamia University of Bahawalpur during office hours 8:00 A.M. to 4:00 P.M. on submission of written application on letter head and a copy of CNIC OR can be down loaded from the IUB Website www.iub.edu.pk or PPRA website www.ppra.punjab.gov.pk on payment of (nonrefundable fee) Rs.1000/- through HBL Bank challan in A/C 14730000010403 or pay order in the name of the Treasurer Islamia University of Bahawalpur.
- 2% bid security (re-fundable)** of the total estimated cost as mentioned above in shape of CDR shall be attached with the bid, otherwise bid will not be entertained.
- Single Stage Two Envelope** bidding procedure will be adopted as per PPRA Rules.
- Procurement shall be governed under the Punjab Procurement Rules 2014.
- The rates should be quoted inclusive all taxes. Copy of paid bank challan Professional tax also be Provided.
- The procuring agency may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The procuring agency shall upon request communicate to any bidder, the grounds for rejection of all bids or proposals, but shall not be required to justify those grounds.
- Tender must reach in the Treasurer's Office on or before **28.01.2021** by **11:00 A.M.** which will be opened on the same day at **11:30 AM** in the presence of bidders or their representatives.
- All bids submitted after the given time, incomplete and alternate bidding shall not be accepted.
- Wherever a brand has been specified, equivalent will be entertained subject to technical evaluation according to PPRA Rules
- All prevailing taxes will be applicable as per Govt. Rules & Regulations, i.e. (income tax, Sales tax, etc).
- In case of closed/forced holidays, tender opening time/date will be considered as the next working day.



Treasurer
The Islamia University of Bahawalpur
Abbasia Campus, Bahawalpur.
Phone: 062-9250245, 9250328
Fax No: 062-9250255

IPB-25

Daily Jang Multan and The News Lahore



The Islamia University of Bahawalpur

PROCUREMENT OF MISC NETWORKING ITEMS

Tender -A

1. Name of Firm: _____
2. Mailing Address: _____
3. Phone No: _____ 4. Fax No: _____
5. Tender Fee Challan No. & amount _____ CDR No. & Amount _____
6. General Sale Tax No: _____ 7. Income Tax No. _____
8. Professional Tax No: _____

Sr No	Item	Description	Qty	Rate per Items with all taxes
1	Wireless Controller	Rack Mount Wireless Controller for Up to 2000 Access Point, Maximum number of clients 32,000, Maximum throughput Up to 40 Gbps, Maximum WLANs 4096, 4x 10G/1x 1G SFP+/SFP, RJ-45 compatible console port, RJ-45 10/100/1000 management Ethernet port, High-availability LED, 750W Redundant power Supply, IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11n, 802.11k, 802.11r, 802.11u, 802.11w, 802.11ac Wave1 and Wave2, 802.11ax Wireless Standards Supported, Web-based: HTTP/HTTPS, Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port, SNMP, NETCONF, 250 access point subscription license must be included.	1	
2	16 Port Distributed Switch	Rack Mount Distributed Switch 16 x 10-Gigabit SFP/SFP+ ports, 8-port 1/10 Gigabit Ethernet with SFP/SFP+ with Redundant power Supply Slot, 4-core x86, 2.4-GHz CPU, 16-GB DDR4 memory, and 16-GB internal storage, USB mini Type B console port, USB 2.0 host port, Ethernet management RJ-45 port, Console port (RJ-45 Serial), front-facing, passive RFID tag, Bluetooth ready, Blue beacon, supports SSD storage, Type 4 hot-swappable fan module, Advanced security capabilities like ETA, MACSec-128 and Trust Worthy systems, policy-based automation from the edge to the cloud with SD-Access solution, 03 year Service Agreement, 03 year Subscriptions License, All Mounting, Managing & Connecting Accessories.	6	
3	Redundant power Supply	950WAC Power Supply for 16 Port Distributed Switch	2	
4	48 Port PoE Network Switch	Rack Mount 48 ports full POE+, 4x 1/10G Modular uplinks, 400 Gbps Switching Capacity, Redundant power Supply slot, 4 GB DRAM, 4 GB Flash Memory, Enhanced security with AES-128 MACsec encryption, policy-based segmentation, and trustworthy systems, UADP 2.0 Mini with integrated CPU, Layer 3 capabilities, including OSPF, EIGRP, ISIS, RIP, and routed access, 03 year Service Agreement, 03 year Subscriptions License, All Mounting, Managing & Connecting Accessories.	40	
5	Redundant power Supply	1KW AC Power Supply for 48 Port PoE Network Switch	10	
6	24 Port PoE Network Switch	Rack Mount 24 ports full PoE+, 4x 1/10G Modular uplinks, 352 Gbps Switching Capacity, Redundant power Supply slot, 4 GB DRAM, 4 GB Flash Memory, Enhanced security with AES-128 MACsec encryption, policy-based segmentation, and trustworthy systems, UADP 2.0 Mini with integrated CPU, Layer 3 capabilities, including OSPF, EIGRP, ISIS, RIP, and routed access, 03 year Service Agreement, 03 year Subscriptions License, All Mounting, Managing & Connecting Accessories.	40	
7	Redundant power Supply	600W Power Supply for 24 Port PoE Network Switch	10	
8	SFP Module	SFP-10G-LR 10km SFP Module,	12	
9	SFP Module	SFP-10G-LR 1km SFP Module,	200	
10	SFP Module	SFP-1G-LR 10km SFP Module,	20	
11	16 Port Network Switch	Manageable Rack Mount 16 x 10/100/1000 All PoE+ ports, All Mounting, Managing & Connecting Accessories for 9-U Box	10	

Sr No	Item	Description	Qty	Rate per Items with all taxes
12	8 Port Network Switch	Manageable Rack Mount 8 x 10/100/1000 All PoE+ ports, All Mounting, Managing & Connecting Accessories for 9-U Box	20	
13	Air Fiber	Point to Point Air Fiber Bridge connectivity, High-Band 5 GHz, 1.2+ Gbps Throughput, 100+ KM Range, Complete Set Both Unit,	12	
14	Fiber LAN Card	Intel X520 Dual Port 10Gb SFP+ Adapter for Cisco M220-M2 Server	2	
15	KVM Switch	16 Ch KVM Switch With Rack Mount LED Screen	4	
16	Access Point	Wi-Fi 6 (802.11ax) standard, 2048 MB DRAM, 1024 MB flash, Four radios: 5 GHz (4x4) Flexible radio with 2.4 or 5 GHz (4x4), Unified RF Engine and 802.15.4 for IoT, OFDMA and MU-MIMO, Available with optional embedded wireless controller, Multi-gigabit support, MU MIMO technology, Uplink/downlink OFDMA, Target wake time, BSS coloring, Intelligent Capture, Flexible Radio Assignment, Smart antenna connector, Embedded Wireless Controller, Bluetooth 5, 1x 100, 1000, 2500 Multi-gigabit Ethernet (RJ-45) – IEEE 802.3bz, Management console port (RJ-45), USB 2.0 @ 3.75W, Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors , IEEE 802.11 a/b/g/n/ac/ax, IEEE 802.11h, 802.11d, 03 year Service Agreement, 03 year Subscriptions License, All Mounting, Managing & Connecting Accessories	250	
17	Smart Power Distribution Unit (PDU)	Vertical Type, 12-14 Power Sockets (IEC C14 to C13), 6-8 KW Power Capacity, 1-Phase (L-N), Input plug Type: iec 230v/32a 2p+e 6hr, Hot-swappable network card, HTTP(S), SSH, Telnet, SNMP, (S)FTP, SMTP, Syslog, LDAP(S), RS-232 serial , Star multi-linking (ability to link up to four power circuits using one IP address. Primary link provides backup power to network card.), Temperature/ Humidity Monitoring, Per-Inlet Power Sensing (Current per phase. PIPS includes voltage, active power, apparent power, power factor, and energy),	10	
18	29-U Smart Cabinet	Built in Power Management, Centralized Monitoring system, Built-in UPS and Batteries 5 KVA (10 Minutes backup time), Centralized control cooling as per ASHRAE standards, Thermal Management and Emergency fans, Metered PDU's, Touch LCD display, Fully compact and isolated cooling from outside environment, Moisture, Dust, Noise proof, One windows operation, all equipment monitoring and management in one screen, Air flow cycle with hot & cold aisle separation, Plug n Play no need to install additional items/room construction., Surge Protection system, 29U available space for hardware mounting, 01 year warranty or equal	2	

Technical Evaluation Criteria for tender A

1. Submission of undertaking that the firm is not blacklisted by any of Provincial or Federal Government Department anywhere in Pakistan (5).
2. In full compliance of the Execution Schedule / Delivery Period mentioned in tender document (Undertaking) (5).
3. The proposed equipment is Brand New, Non-Refurbished and acquired through proper channel (Undertaking) (10).
4. Bidder must be Tier-1 / Premier Partner / Highest level Partner with the Principal (25).
5. Principal should have minimum 10 years' presence and experience of selling Network equipment in Pakistan with at least three warehouses to ensure sufficient spares and NBD hardware replacement. OEM letter is required (10).
6. Bidder should have experience in deployment of Core Network Infrastructure (Data Center) in Enterprise/Education Sector (Satisfactory letter required from the Banks) (10).
7. 01 Year comprehensive warranty by OEM with 24x7 TAC support, NBD Hardware replacement should be proposed and verifiable from the Principal website. Warranty Letter from Principal required (10).
8. Professional Level Training for at least 03 Employees of IUB with Certification of the quoted Brand from Principal Authorized Academy should be part of the proposal (10).
9. Organization/firm must have at least Three certified Expert Level employees of proposed hardware to support the system (Need to attached CVs of the certified professionals with the technical proposal) (15).
10. Manufacturing Authorization Letter (MAL) Required.
11. Sr # 8, 9, 10 must be Compatible with Sr # 1, 2, 4 & 6.
12. Organization/firm must obtain at least 70 marks out 100 to qualifying for the tender.
13. Verifiable documentary proof for all above requirements is mandatory. In case of non-provision of any or all of the documents as mentioned above, the firm may be treated as ineligible to qualify to the next stage of technical evaluation for pre-qualification.



The Islamia University of Bahawalpur

PROCUREMENT OF MISC ITEMS

Tender -B

1. Name of Firm: _____
2. Mailing Address: _____
3. Phone No: _____ 4. Fax No: _____
5. Tender Fee Challan No. & amount _____ CDR No. & Amount _____
6. General Sale Tax No: _____ 7. Income Tax No. _____
8. Professional Tax No: _____

S/ N o.	Item / Description	Qty	Rate per item with all taxes
1	ATX/Standard Power Supply 24pin (500-watt min)	50	
2	Paint Brush soft 4"	10	
3	Toner 05-A (Original Black	40	
4	Toner (53-A) Original Black	40	
5	Toner 17-A Original	40	
6	Cartridge for Printer LINE PRINTER P8000 255048-402	10	
7	Toner COPIER SP8200 DN 820076, SP8200A	15	
8	Toner COPIER Pro 951 A3VV131, TN015, TN-015	15	
9	Toner Cartridge 312 Original Black	40	
10	Digital Multi Meter (uni-T) UT139C	10	
11	Keyboard USB Standard Keycaps: Round Edge Hotkeys: 12 FN Multimedia Hotkeys Character: Laser Engraving Splash Proof: Yes Adjustable Keyboard Legs: Yes Rating: 5 V / 30 mA Dimension: 454 x 154 x 29 mm Weight: 580 g Cable Length: 150 cm Hardware Connectivity: USB	300	
12	Optical mouse USB Type: Wired Ergonomic Design: Symmetric Sensor: Optical Resolution: 1000 DPI Buttons No.: 4 Port: USB Cable Length: 150 cm	500	
13	Wireless Presenter Color: Black Laser Class: Class 2 Laser Max Output: Less than 1mW Wave Length: 640~660nm (red light) Battery type: 2 AAA batteries Battery life (Laser pointer): 20-hour maximum Battery life (Presenter): 1050-hour maximum Wireless operating distance: Approx 10m 2 Wireless technology: 2.4 GHz wireless technology Height x Width x Depth: 1.49 in (37.8 mm) x 4.55 in (115.5 mm) x 1.08 in (27.4 mm)	20	
14	AAA Alkaline Cell	200	

15	AA Alkaline Cell	100	
16	Drill bits 4.5mm to 8mm (30 each size) total 200 bits	200	
17	Hard Drive 2.5 Enclosure USB 3.0 Compatible HDD Type 2.5 inch HDD / SSD Output USB3.0 Micro B Controller JMS578 Supported Capacity 4TB Dimension 124.5 x 79 x 13mm Safety Approval CE / FCC / RoHS	30	
18	HDMI 2.0, 4K Cable Length 10m, male to male	10	
19	HDMI 2.0, 4K Cable Length 15m, male to male	10	
20	Toner Original (79-A)	100	
21	HP Original (26-A)	50	
22	Projector Screen 150 Inch Electric Motorized 10x8 Feet	20	
23	Projector Screen 120 Inch Electric Motorized 8x6 Feet	20	
24	Projector ceiling mount kit with screws 2feet aluminum	15	
25	HDMI 2.0, 4K Cable Length 20m, male to male	5	
26	Bar code scanner Handheld wireless Read 1D / 2D barcode Communication: 2.4 Ghz Wireless Scan mode: press the button 2200Mah battery capacity can be used continuously for up to 36 hours Can withstand good impact when falling from a height of 1m. Speed: 300 scan / sec Or equivalent	20	
27	Bar code scanner Handheld Dimensions (LxWxH) 198 mm x 78 mm x 56 mm (7.8" x 3.1" x 2.2") Weight 149 g (5.3 oz) Electrical Input Voltage 5 VDC + 0.25 V Operating Power 825 mW (165 mA @ 5 V) Standby Power 600 mW (120 mA @ 5 V) Host System Interfaces USB, RS232, Keyboard Wedge, IBM 46xx (RS485), OCIA, Laser Emulation, Light Pen Wand Emulation Environmental Operating Temperature 0°C to 40°C (32°F to 104°F) Storage Temperature -40°C to 60°C (-40°F to 140°F) Humidity 5% to 95% relative humidity, non-condensing Drop Designed to withstand 1.5 m (5') drops Environmental Sealing Sealed to resist airborne particulate contaminants Light Levels 4842 Lux Scan Performance Scan Pattern Single scan line Scan Speed 72 scan lines per second Scan Angle Horizontal: 50° Print Contrast 35% minimum reflectance difference Pitch, Skew 68°, 52° Decode Capabilities Reads standard 1D and GS1 DataBar symbologis Or equivalent Or equivalent	10	
28	Universal multi pin plug to EU Convert Plug from Overseas Appliances to be used in EU Convert from UK / EU / US / CN upto 10AMP	200	
29	Microphone (Wireless) Microphone unit: Dynamic Directivity: Unidirectional Channel group: A or B Carrier Frequency Range: 576.4 MHz-599.9 MHz (Channel group: A) 568.6 MHz-592.1 MHz (Channel group: B) Channels: 48 RF output power: ≤10 mW Input frequency range:20Hz-20KHz Distortion: 0.5% or less Signal-to-noise ratio: 80 dB Dimensions: 5.3x5.3x25.6cm Weight: 252g (without batteries) UHF transmission with 48 channels Cardioid Microphone Transmitter A or B channel group for selection Compatible with RX8 Pro and SP-RX8 Pro OLED Display • Powered by one Two AA Batteries Or equivalent	20	

30	<p>LED 24 Inch Display type IPS w/LED backlight Display size (diagonal) 60.45 cm (23.8") Viewing angle 178° horizontal; 178° vertical Brightness 250 cd/m² Contrast ratio 1000:1 static; 10000000:1 dynamic Response Ratio 5 ms gray to gray (With overdrive) Product colour Black Aspect ratio 16:9 Native resolution FHD (1920 x 1080 @ 60 Hz) Resolutions supported 1920 x 1080; 1680 x 1050; 1600 x 900; 1440 x 900; 1280 x 1024; 1280 x 800; 1280 x 720; 1024 x 768; 800 x 600; 720 x 400; 640 x 480 Display features Anti-glare; Language selection; LED Backlights; On-screen controls; Plug and Play; User programmable User controls Menu; Minus ("-"); Plus ("+") /Input Control; Power Input signal 1 VGA; 1 DVI-D; 1 HDMI (with HDCP support) Environmental Operating temperature: 5 to 35°C; Operating humidity: 20 to 80% RH Power Input voltage: 100 to 240 VAC Power consumption 25 W (maximum), 22 W (typical), 0.5 W (standby) Dimensions 54.66 x 4.47 x 32.1 cm (Without stand) Weight 3.7 kg (With stand) Ergonomic features Tilt: -5 to +20° Physical security features Security lock-ready (lock is sold separately) Certification and compliance CB; TUV-Low Blue Light; CCC; CEL; CECP; SEPA; WEEE Environmental specifications Arsenic-free display glass; Mercury-free display backlights What is in the box AC power cord; Documentation; VGA cable Or equivalent</p>	30	
31	<p>Speaker Full Range EVID-PC6.2 6½" 2-way ceiling speaker, High-performance EV-engineered compression driver. Ultra-wide HF dispersion provides extremely even coverage through room. High-excursion woofer provides dramatic low-end frequency extension. Reinforced steel back can provides rigid enclosure to minimize acoustic loss. Four-point clamp mechanism and integrated mounting legs enable quick ceiling installation. Detachable pass-thru Phoenix-style signal connections simplify installation wiring. Tap selector with 8Ω / 70 V / 100 V operations. Fully reinforced ABS UL-rated baffle ensures long life. Fully compliant with EN 54 (pending), UL 1480, and 2043 standards. Frequency Range (-10 db) 50 Hz – 20 kHz Nominal Coverage (Conical)100° Power Handling 200 W Program, 100 W Pink Noise</p>	8	
32	<p>Speaker Full Range EVID C4.2 4" 2-way coaxial ceiling loudspeaker, Designed for air-handling spaces. Ported enclosure for extended bass response. Waveguide-coupled 0.75-inch titanium-coated tweeter</p> <p>Full-bandwidth overload protection Integrated transformer for 70 V, 100 V, or 8 Ω use Front-panel mode/wattage selector Safe, easy installation with included tile bridge and mounting ring White semi-gloss perforated grille Complete package, requires no additional accessories</p> <p>Frequency Range (-10 dB) 65 - 20000kHz Weight Net 5.95lbs (2.7kg) Height 6.93" (176mm)</p>	8	
33	<p>Speaker Full Range EVID 4.2 Dual 4" 2- way surface-mount loudspeaker Compact full range. Ideal for restaurants, bars, patios, and retail. Vented LF enclosure 1-inch titanium diaphragm HF driver with neodymium magnetic structure Coherent Coverage Waveguide Full-bandwidth overload protection (LF and HF) Elliptical weather-resistant ABS enclosure Paintable black or white finish Magnetically shielded for video applications Strong-Arm Mount for easy, flexible aiming "T" version for 70 or 100 V distributed systems</p>	8	
34	<p>Speaker Full Range EVID 6.2 Dual 6" 2- way surface-mount loudspeaker Compact full range. Ideal for shopping malls, sports bars, and health clubs. Vented LF enclosure 1-inch titanium diaphragm HF driver with neodymium magnetic structure Coherent Coverage Waveguide Full-bandwidth overload protection (LF and HF) Elliptical weather-resistant ABS enclosure Paintable black or white finish Magnetically shielded for video applications Strong-Arm Mount for easy, flexible aiming "T" version for 70 or 100 V distributed systems</p>	8	
35	<p>Mic R300-L Lapel system with ULM18 directional microphone Clear Scan automatically finds the clearest channel EZ sync one-step channel setup ULM18 directional lavalier microphone 14 hour battery life from two AA alkaline Rugged metal transmitter Metal receiver chassis with optional rack mount</p>	8	
36	<p>Toner for Bizhub 458</p>	10	

37	Wooden power Board Complete (8 x 10) with sheet	80	
38	De-soldering PUMP	5	
39	Audio Mixer 16 ~ 24 channel 1000-watt powered mixer	6	
40	USB LAN Card gigabit	10	
41	Wireless Keyboard Mouse set Type: Wireless, Connection: 2.4G Hz, Operating Range: 10 - 15 m, Mouse: FG10, Ergonomic Design: Symmetric, Sensor: Optical Resolution: 1000/1600/2000 DPI, Report Rate: 125Hz, Buttons No.: 4, Receiver: Nano USB Receiver, Demension: 108 x 64 x 35 mm, Weight: 67 g (Batteries not included), Battery: 1AA Alkaline Battery, Keyboard: FGK10, Keycaps: Sleek Round-Square Hotkeys: 12 Fn Hotkeys, Character: Laser Engraving, Splash Proof: Yes, Adjustable Keyboard Legs: Yes, Rating: 1.5 V / 10 mA Dimension: 456 x 156 x 24 mm, Weight: 494 g (Battery not included), Battery: 1 AA Alkaline Batteries	50	
42	1.5v Cell size D	100	
43	DDR4 Ram 8GB Laptop	30	
44	DDR 4 Ram 8GB Desktop	30	
45	Imageclass Toner 047	100	
46	Drum cartridge 049	30	
47	Imageclass toner 057	50	
48	Full Range Speaker set (2 speaker)	50	
49	Amplifier with 3 Aux Cable – 3 channels	25	
50	Any Cast B-100 4K	25	
51	Vga to HDMI converter	25	
52	5x1 way HDMI splitter 5input 1 output	25	
53	1x2way hdmi splitter	25	
54	HDMI to CAT 6 converter set	25	
55	Wireless Mic set (hand held+collar mic)	25	
56	USB extension cable 1.5meter 3.0	25	
57	Color Printer inkjet A3 A3+ Borderless Photo Printing Print Method: On-demand inkjet (Piezoelectric) Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology) Minimum Ink Droplet Volume: 1.5pl Nozzle Configuration: 90 per color (Cyan, Light Cyan, Magenta, Light Magenta, Yellow, Black) Print Method: On-demand inkjet (Piezoelectric) Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology) Minimum Ink Droplet Volume: 1.5pl Automatic Duplex Printing: No Print Direction: Bi-directional printing, Uni-directional printing Nozzle Configuration: 90 per colour (Cyan, Light Cyan, Magenta, Light Magenta, Yellow, Black) Paper Sizes: A3+, A3, B4, A4, A5, A6, B5, 10x15cm (4x6"), 13x18cm (5x7"), 16:9 wide size, Letter (8.5x11"), Legal (8.5x14"), Half Letter (5.5x8.5"), 9x13cm (3.5x5"), 13x20cm(5x8"), 20x25cm(8x10"), Envelopes: #10(4.125x9.5") DL(110x220mm), C4 (229x324mm), C6(114x162mm) connectivity Standard: USB 2.0 Or equivalent	1	
58	Color Printer inkjet Print Method: On-demand inkjet (Piezoelectric) Maximum Print Resolution: 5,760 x 1,440 dpi (with Variable-Sized Droplet Technology) Minimum Ink Droplet Volume: 1.5 pl Nozzle Configuration: 90 nozzles, each colour (Cyan, Magenta, Yellow, Black, Light Cyan, Light Magenta) Draft, A4 (Black / Colour): Approx. 37 ppm / 38 ppm *1 ISO 24734, A4 Simplex (Black / Colour): Up to 5.1 ipm / 4.8 ipm *1 Photo Default: Approx. 27 sec per photo (Borderless) *1 Max Photo Default: Approx. 12 sec per photo (Borderless) *1 Standard Paper Input Capacity: Up to 120 sheets, A4 Plain Paper (75g/m2) Up to 20 sheets, Premium Glossy Photo Paper Output Capacity: Up to 50 Sheets, A4 Plain Paper (Default mode Text) Maximum Paper Size: 215.9 x 1117.6mm (8.5 x 44") Paper Feed Method: Friction feed Paper Size: A4, A5, A6, B5, 10 x 15cm (4 x 6"), 13 x 18cm (5 x 7"), 16:9 wide size, Letter (8.5 x 11"), Legal (8.5 x 14"), Half Letter (5.5 x 8.5"), 9 X 13cm (3.5 x 5"), 13 x 20cm (5 x 8"), 20 x 25cm (8 x 10"), 100 x 148mm, Envelopes: #10 (4.125 x 9.5"), DL (110 x 220mm), C6 (114 x 162mm) connectivity Standard: USB 2.0 Network: IEEE 802.11b/g/n Or equivalent	3	

59	<p>Color Multifunction Printer inkjet Print Method: On-demand inkjet (Piezoelectric) Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology) Minimum Ink Droplet Volume: 1.5 pl Control Panel: 2.7" TFT Colour LCD Nozzle Configuration: 90 nozzles, each colour (Cyan, Light Cyan, Magenta, Light Magenta, Yellow, Black) Print Method: On-demand inkjet (Piezoelectric) Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology) Minimum Ink Droplet Volume: 1.5 pl Automatic Duplex Printing: No Control Panel: 2.7" TFT Colour LCD Print Direction: Bi-directional printing, Uni-directional printing Nozzle Configuration: 90 nozzles, each colour (Cyan, Light Cyan, Magenta, Light Magenta, Yellow, Black) Reduction / Enlargement: 25 - 400%, Auto Fit Function Max Copies: 99 copies Scanner Type: Flatbed colour image scanner Sensor Type: CIS Optical Resolution: 1200 X 2400 dpi Maximum Scan Area: 216 X 297mm (8.5" X 11.7") Scanner Bit Depth (Colour): 48-bit internal, 24-bit external Scanner Bit Depth (Grayscale): 16-bit internal, 8-bit external Scanner Bit Depth (Black & White): 16-bit internal, 1-bit external Scanner Type: Flatbed colour image scanner Sensor Type:CIS Optical Resolution:1200 X 2400 dpi Maximum Scan Area:216 X 297mm (8.5" X 11.7") Scanner Bit Depth (Colour): 48-bit internal, 24-bit external Scanner Bit Depth (Grayscale): 16-bit internal, 8-bit external Scanner Bit Depth (Black & White): 16-bit internal, 1-bit external Copy speed: Draft, A4 (Black / Colour): Approx. 37 cpm / 38 cpm Type of Direct Printing: Card Slots, PictBridge, Direct USB Port Type of Direct Printing: Card Slots, PictBridge, Direct USB Port Number of Paper Trays:1 Standard Paper Input Capacity:Up to 100 sheets, A4 Plain paper (75g/m2) Up to 20 sheets, Premium Glossy Photo Paper Output Capacity: Up to 50 sheets, A4 Plain paper Up to 20 sheets, Premium Glossy Photo Paper Maximum Paper Size: 215.9 x 1117.6mm (8.5 x 44") Paper Sizes: A4, A5, A6, B5, 10x15cm(4x6in), 13x18cm(5x7in), 9x13cm(3.5x5in), Letter(8.5x11in), Legal(8.5x14in), Half Letter(5.5x8.5in), 13x20cm(5x8in), 20x25cm(8x10in), 16:9 wide size, 100x148mm Envelopes: #10(4.125x9.5in), DL(110x220mm), C6(114x162mm) Paper Feed Method: Friction feed Print Margin: 0 mm top, left, right, bottom via custom settings in printer driver *3 Or equivalent</p>	2	
60	ink KIT for L805	2	
61	ink KIT for L1800	2	
62	Ink KIT for L850	2	
63	<p>Bar code label printer 152.4 mm (6") per second print speed • 300 meter (984") ribbon supply on a 25.4 mm (1") core (coated outside) • 72 to 110 meter (361") ribbon supply on a 12.7 mm (0.5") core (coated outside) • 127 mm (5") OD internal media supply, optional external media holder supports 214 mm (8.4") OD label rolls on 76.2 mm (3") core Or equivalent • Print mechanism for kiosk applications • 400 MHz 32-bit RISC processor with 16 MB SDRAM, 8 MB Flash memory for TE200/TE300, and 64 MB SDRAM, 128 MB Flash memory for TE210/TE310 • Internally scalable true type fonts • TSPL-EZ firmware emulates TPLE and TPLZ languages out of the box • Free Windows® drivers and label design software (available via download) • ENERGY STAR® qualified</p>	2	
64	Barcode label 2x1" ROLL	100	
65	3" carbon roll label printer	30	