TECHNICAL SPECIFICATION
SUPPLY OF AP ACCESS SWITCH (TYPE A)
Unit: _____

Suitable medium requirement Access point heavy environment/ High power requirement network Access.

No.	SPECIFICATION	VENDORS PROPOSAL	COMPLIANCE (YES/NO)
TYPE A	**AP ACCESS SWITCH**		
Network Capabilities	24 ports (10/100/1000 Gbps) CL4 POE support - Stackable Layer 3 switches with BGP, EVPN, VXLAN, VRF, and OSPF with robust security and QoS - Built-in high-speed 10G/25G uplinks 4 Small Form-Factor Pluggable(SFP). - High performance 448 Gbps system switching capacity, 334 MPPS of system throughput, and up to 200 Gbps stacking bandwidth. - Size 1U and Power-to-port switch bundle with back-to-front airflow ideal for data center 1GbE ToR and OOBM deployments - Support for automatic VLAN information, assignment & configuration. - Device management support with: - Command-Line Interface (CLI) - Secure shell (SSH) - Simple Network Management Protocol (SNMP) - RJ-45 or USB console access - Configuration with minimum 1Gbps link speed - Port Security with 802.1X support for - Port Mirroring / Monitoring - Bridge Protocol Data Unit (BPDU) Guard Protection - Spanning-tree / Loopguard / Rootguard - Other Security features: - Multidomain authentication - Internet Group Management Protocol (IGMP) filtering, - Terminal Access Controller Access Control System (TACACS) / Radius authentication - Access control list (ACL)		

*This specification has been endorsed at the **Technical Specification Endorsement meeting** dated **18th August 2023** – "*IIUM AP Switches Update.*"

	o Dynamic Segmentation / VLAN		
Service requirements	Make sure that the deployment of the switch inherits the network configuration of the uplink switch such as but not limited to: • VLAN configuration • LLDP enablement • Campuses SNMP configuration • Connection Integration with an uplink switch such as a port channel or trunking requirements		
Accessories	Must make sure to include the following accessories, unless stated not: • Rackmounts/rack tray installed to fit with existing racks including bolts/nuts etc. • Minimum 1 Installed AC 680W module along the switch • Minimum 1 10G SFP+ LC LR Transceiver and 3m LC-LC SMF Patchcord		
Base warranty	▪ Must come with minimum 1 YEAR support and product warranty by Principle.		
Documentation	• SSM Letter (**Form 9**, company profile) • Bank statements (ending balance for **3 Months**) • MOF certificate • Letter from principal for all supplied items • Heatmap before and after installation • FAT and UAT for all supplied items		
Penalty	In the event the vendor fails to install the Product within the Installation Period, IIUM shall have the rights against the vendor as follows: (a) A penalty of RMXXX per unit per day until the installation/ relocation is complete; and/or		
	In the event the vendor fails to replace the faulty Product after one (1) working day, IIUM shall have the rights against the vendor as follows: (a) A penalty of RMXXX per unit per day until the replacement is complete; and/or (b) If necessary by IIUM, the right to purchase the replacement of the Product from another source and the said replacement shall not exceed the specification described in the Agreement.		

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	In the event the vendor fails to meet SLA, IIUM shall have the rights against the vendor as follows: (a) A penalty of RMXXX per unit per hour until the Products are restored		

PIC INFORMATION

Name:

Telephone No. :

Email:

PIC SIGNATURE &
COMPANY STAMP

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TECHNICAL SPECIFICATION
SUPPLY OF MULTI-GIG SWITCH (TYPE B)
Unit: _____

Suitable medium requirement high requirement access point heavy environment/ High power requirement network Access.

No.	SPECIFICATION	VENDORS PROPOSAL	COMPLIANCE (YES/NO)
TYPE B	**MULTI-GIG SWITCH**		
Network Capabilities	24 ports (1/2.5/5/10 Gbps) multi-gigabit and CL6 POE support - Stackable Layer 3 switches with BGP, EVPN, VXLAN, VRF, and OSPF with robust security and QoS - Built-in high-speed 10G/25G/50G uplinks 4 Small Form-Factor Pluggable(SFP). - High performance 780 Gbps system switching capacity, 580 MPPS of system throughput, and up to 200 Gbps stacking bandwidth. - Size 1U and Power-to-port switch bundle with back-to-front airflow ideal for data center 1GbE ToR and OOBM deployments - Support for automatic VLAN information, assignment & configuration. - Device management support with: - Command-Line Interface (CLI) - Secure shell (SSH) - Simple Network Management Protocol (SNMP) - RJ-45 or USB console access - Smart rate configuration with minimum 1Gbps link speed - Port Security with 802.1X support for - Port Mirroring / Monitoring - Bridge Protocol Data Unit (BPDU) Guard Protection - Spanning-tree / Loopguard / Rootguard - Other Security features: - Multidomain authentication - Internet Group Management Protocol (IGMP) filtering, - Terminal Access Controller Access Control System (TACACS) / Radius authentication - Access control list (ACL)		

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	○ Dynamic Segmentation / VLAN		

Service requirements	• Make sure that the deployment of the switch inherits the network configuration of the uplink switch such as but not limited to:
	  • VLAN configuration
	  • LLDP enablement
	  • Campuses SNMP configuration
	  • Connection Integration with an uplink switch such as a port channel or trunking requirements		

Accessories	• Must make sure to include the following accessories, unless stated not:
	  • Rackmounts/rack tray installed to fit with existing racks including bolts/nuts etc.
	  • Minimum 1 Installed AC 1050W module with switch
	  • Minimum 1 10G SFP+ LC LR Transceiver 3m LC-LC SMF Patchcord		

Base warranty	▪ Must come with minimum 1 YEAR support and product warranty by Principle.		
Documentation	• SSM Letter (**Form 9**, company profile) • Bank statements (ending balance for **3 Months**) • MOF certificate • Letter from principal for all supplied items • Heatmap before and after installation • FAT and UAT for all supplied items		
Penalty	In the event the vendor fails to install the Product within the Installation Period, IIUM shall have the rights against the vendor as follows: (a) A penalty of RMXXX per unit per day until the installation/ relocation is complete; and/or		
	In the event the vendor fails to replace the faulty Product after one (1) working day, IIUM shall have the rights against the vendor as follows: (a) A penalty of RMXXX per unit per day until the replacement is complete; and/or (b) If necessary by IIUM, the right to purchase the replacement of the Product from another source and the said replacement shall not exceed the specification described in the Agreement.		

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	In the event the vendor fails to meet SLA, IIUM shall have the rights against the vendor as follows: (a) A penalty of RMXXX per unit per hour until the Products are restored		

PIC INFORMATION

Name:

Telephone No. :

Email:

*PIC SIGNATURE &
COMPANY STAMP*

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