

№	Захиалагчийн техникийн тодорхойлолт
<b>1. Нэгжийн сүлжээний файрволл төхөөрөмж нь fortigate 51E эсхүл түүнтэй дүйцэхүйц байна. /20 ширхэг/</b>	
1	• Хайрцаг сав, баглаа боодолтой шинэ төхөөрөмж байх
2	• Users/nodes: Unlimited user software license.
3	• Internal storage: 32GB SSD
4	• IPS Throughput: 350Mbps
5	• NGFW Throughput: 220Mbps
6	• Threat Protection Throughput: 160Mbps
7	• Firewall throughput: 2.5Gbps
8	• Firewall latency: 180us
9	• Concurrent sessions: 1,8 Million
10	• Maximum New Connections per second: 21000 буюу дээш
11	• Interfaces: GE RJ45 switch ports - 5, GE RJ45 WAN interface -2, RJ 45 console interface, 1 USB port
12	• Maximum VPN throughput: 90 Mbps буюу дээш
13	• Gateway to Gateway IPsec VPN: 200 буюу дээш
14	• Power supply: 100–240V AC, 60–50 Hz (External DC Power Adapter)
15	• Technical Support and Services: Үйлдвэрлэгчийн техникийн дэмжлэг үйлчилгээг 12 сарын хугацаанд үзүүлэх.
<b>2. Радио холболтын төхөөрөмж /бага давтамжийн/ нь PBE-M5-400 эсхүл түүнтэй дүйцэхүйц байна. /5 ширхэг/</b>	
1	• Хайрцаг сав, баглаа боодолтой шинэ төхөөрөмж байх
2	• POE адаптерийн хамт
3	• Power Supply: 24V, 0.5A Gigabit PoE
4	• Max. Power Consumption: 8W
5	• Operating Frequency:
6	• Worldwide: 5150 - 5875 MHz
7	• USA: U-NII-1 5150 - 5250 MHz*
8	• USA: U-NII-2A 5250 - 5350 MHz*
9	• USA: U-NII-2C 5470 - 5725 MHz*
10	• USA: U-NII-3 5725 - 5850 MHz*
11	• Gain: 25 dBi
12	• Networking Interface: (1) 10/100/1000 Ethernet Port
13	• Processor Specs: Atheros MIPS 74Kc, 560 MHz
14	• Memory: 64 MB DDR2, 8 MB Flash
15	• LEDs: (1) Power, (1) LAN, (4) WLAN
16	• Signal Strength LEDs: Software-Adjustable to Correspond to Custom RSSI Levels
17	• Max. VSWR: 1.5:1
18	• Channel Sizes: 5/8/10/20/30/40 MHz
19	• Polarization: Dual Linear
<b>3. Радио холболтын төхөөрөмж /өндөр давтамжийн/ нь Ubiquiti Rocket M5/30db тавган антентай/ төхөөрөмж эсхүл түүнтэй дүйцэхүйц байна. /5 ширхэг/</b>	

1	• Хайрцаг сав баглаа боодолтой шинэ төхөөрөмж байх
2	Physical / Electrical / Environmental Information
3	• 30 dbi – тавган антентай
4	• Enclosure Characteristics: Outdoor UV Stabilized Plastic
5	• Processor: MIPS 74Kc
6	• Memory: 128 MB SDRAM, 8 MB Flash
7	• Networking Interface: 10/100 Mbps
8	• RF Connections: (2) RP-SMA (Waterproof)
9	• LEDs: Power, Ethernet, (4) Signal Strength
10	• Max. Power Consumption: 8W
11	• Power Supply: 24V, 1A PoE Adapter
12	• Power Method: Passive PoE (Pairs 4, 5+; 7, 8 Return)
13	• ESD/EMP Protection: ± 24KV Air / Contact
14	• Operating Temperature: -30 to 75° C (-22 to 167° F)
15	• Operating Humidity: 5 to 95% Noncondensing
16	• Shock and Vibration: ETSI300-019-1.4
17	• RF cables – 2 ширхэг
18	• Software Information
19	• Modes: Access Point, Station
20	• Services: Web Server, SNMP, SSH Server, Telnet , Ping Watchdog, DHCP, NAT, Bridging, Routing
21	• Utilities: Antenna Alignment Tool, Discovery Utility, Site Survey, Ping, Traceroute, Speed Test
22	• Distance Adjustment: Dynamic Ack and Ackless Mode
23	• Power Adjustment: Software Adjustable UI or CLI
24	• Security: WPA2 AES Only
25	• QoS: Supports Packet Level Classification WMM and User Customer Level: High/Medium/Low
26	• Statistical Reporting: Up Time, Packet Errors, Data Rates, Wireless Distance, Ethernet Link Rate
27	• Other: Remote Reset Support, Software Enabled/Disabled, VLAN Support, 64QAM, 5/8/10/20/30/40 MHz Channel Width Support
28	• Ubiquiti Specific Features: airMAX Mode, Traffic Shaping with Burst Support, Discovery Protocol, Frequency Band Offset, Ackless Mode
<b>4. Свич 16 PoE порт төхөөрөмж /14 ширхэг/</b>	
1	• Хайрцаг сав, баглаа боодолтой шинэ төхөөрөмж байх
2	• Network Interfaces - 16x GE RJ45 RJ-45 Serial Console Port
3	• 1 RU Rack Mount
4	• Power over Ethernet (PoE) Ports - 8 (802.3af/at)
5	• PoE Power Budget - 260 W
6	• Switching Capacity (Duplex) - 20 Gbps
7	• Packets Per Second (Duplex) - 30 Mpps
8	• MAC Address Storage - 8 K
9	• Network Latency - 4µs
10	• VLANs Supported - 4 K
11	• Link Aggregation Group Size – 8
12	• Packet Buffers - 512 KB
13	• DRAM – 256MB DDR3
14	• FLASH – 32MB
15	• Power Required - 100–240V AC, 50–60 Hz

16	• Operating Temperature - 32–104°F (0–40°C)
17	• Storage Temperature - -40–158°F (-40–70°C)
18	• Humidity - 10–90% non-condensing
19	• FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2
<b>5. Свич 16 порт /managed/ төхөөрөмж /19 ширхэг/</b>	
1	• Хайрцаг сав, баглаа боодолтой шинэ төхөөрөмж байх
2	• Network Interfaces - 16x GE RJ45 RJ-45 Serial Console Port
3	• 1 RU Rack Mount
4	• Power over Ethernet (PoE) Ports - 8 (802.3af/at)
5	• PoE Power Budget - 260 W
6	• Switching Capacity (Duplex) - 20 Gbps
7	• Packets Per Second (Duplex) - 30 Mpps
8	• MAC Address Storage - 8 K
9	• Network Latency - 4μs
10	• VLANs Supported - 4 K
11	• Link Aggregation Group Size – 8
12	• Packet Buffers - 512 KB
13	• DRAM – 256MB DDR3
14	• FLASH – 32MB
15	• Power Required - 100–240V AC, 50–60 Hz
16	• Operating Temperature - 32–104°F (0–40°C)
17	• Storage Temperature - -40–158°F (-40–70°C)
18	• Humidity - 10–90% non-condensing
19	• FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2
<b>6. Свич 24 порт /managed/ төхөөрөмж нь FortiSwitch 124E-FPOE серийн эсхүл түүнтэй дүйцэхүйц байна. /6 ширхэг/</b>	
1	• Хайрцаг сав, баглаа боодолтой шинэ төхөөрөмж байх
2	• Network Interfaces - 24x GE RJ45 and 4x GE SFP
3	• RJ-45 Serial Console Port - 1
4	• Form Factor - 1 RU Rack Mount
5	• Power over Ethernet (PoE) Ports - 24 (802.3af/at)
6	• PoE Power Budget - 370 W
7	• Switching Capacity (Duplex) - 56 Gbps
8	• Packets Per Second (Duplex) - 83 Mpps
9	• MAC Address Storage - 8 K
10	• Network Latency - 4μs
11	• VLANs Supported - 4 K
12	• Link Aggregation Group Size – 8
13	• Packet Buffers – 512KB
14	• DRAM – 256MB DDR3
15	• FLASH – 32MB
16	• Power Required - 100–240V AC, 50–60 Hz
17	• Operating Temperature - 32–104°F (0–40°C)
18	• Storage Temperature - -40–158°F (-40–70°C)
19	• Humidity - 10–90% non-condensing
20	• FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2