

**SPECIFIKACIJA PROIZVODA**

**Partija 2 - Univerzitet u Beogradu**

**1. Video konferencijski Sistem - LifeSize Icon 600**

**SYSTEM COMPONENTS**

Lifesize Icon 600 video system

Lifesize Camera 10x (Optional)

Lifesize Phone HD, Phone, 2nd Generation, or Digital MicPod (Optional)

Remote control

Power supply/cables

**COMMUNICATIONS**

SIP, H.323, 128 Kbps–6.0 Mbps

1 x RJ-45 Network LAN 10/100/1000

1 x Lifesize Link for 2x Lifesize Digital MicPod and/or Lifesize Phone HD or Phone, 2nd Generation

**SUPPORT FOR UP TO TWO DISPLAYS**

Any 720p or 1080p HD displays supporting HDMI input

HD 1080P60 PTZ CAMERA (OPTIONAL LIFESIZE CAMERA 10X)

Wide-angle zoom lens with 70-degree field of view

Up to 10x optical zoom

Auto focus/automatic gain control

10 camera presets (near or far end)

Standard 3.0 m HDMI cable

**VIDEO SPECIFICATIONS**

Maximum resolution 1920x1080, 16:9 aspect ratio

All resolutions progressive scanning up to 60 frames per second

Over 200 resolutions supported

Example bitrates and resolutions (H.264 High Profile, AAC-LD):

600 Kbps (720p30)

820 Kbps (720p60)

1.2 Mbps (1080p30)

1.7 Mbps (1080p60)

**VIDEO STANDARDS**

H.264 High Profile, H.264 Baseline Profile, H.263+, H.263

**VIDEO INPUTS (2 INPUTS)**

1 x HD Video In (up to 1080p60) HDMI enabled

1 x DVI-I In (up to 1080p60) HDMI/VGA enabled

**VIDEO OUTPUTS (2 OUTPUTS)**

1 x HD Video Out (up to 1080p60) HDMI enabled—primary display

1 x DVI-I Out (up to 1080p60) HDMI/VGA enabled—secondary display

**FULLY INTEGRATED, HD AUDIO CONFERENCE PHONE (OPTIONAL)**

90 Hz up to 22 kHz frequency support

Audio pickup range up to 4.57 m (15 ft.)

Powered by Lifesize Icon 600 directly through Lifesize Link cable

COMING - Computer Engineering d.o.o.

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11030 Beograd, SErbia

Tel./Fax. +381 11 3544644

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Account: :

205-18364-92 [Komercijalna Banka]

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265-1100310005099-78 Raiff.bank

Touchscreen user interface  
Manage HD video, audio and presentation  
Additional support for up to two Lifesize Digital MicPods  
Optional 4 m and 15 m cables available

**FULLY INTEGRATED, HD AUDIO DIGITAL MICPOD (OPTIONAL)**  
90 Hz up to 22 kHz

Audio pickup range up to 4.57 m (15 ft.)  
Powered by video system directly through 4 m Lifesize Link cable  
Support for up to two Lifesize Digital MicPods  
Optional 9 m and 15 m cables available

**AUDIO FEATURES**

WebRTC NetEQ packet loss concealment  
Full duplex for natural conversations  
Echo cancellation for echo-free calls  
Automatic gain control  
Automatic noise reduction

**AUDIO STANDARDS**

G.711, G.722, G.722.1 and G.722.1C licensed from Polycom®, MPEG-4-AAC-LC, MPEG-4 AAC-LD, Opus

**AUDIO INPUTS (4 INPUTS)**

1 x Mic/Line In (3.5 mm)  
1 x Lifesize Link (Lifesize Phone HD or Phone, 2nd Generation, with optional Lifesize Digital MicPods)  
1 x HD Video In  
x DVI-I In

**AUDIO OUTPUTS (4 OUTPUTS)**

1 x Line Out/Headset  
1 x Lifesize Link (Lifesize Phone HD or Phone, 2nd Generation)  
1 x HD Video Out  
1 x DVI-I Out

**OTHER SUPPORTED STANDARDS**

H.221, H.224, H.225, H.231, H.239/BFCP, H.241, H.242, H.245, H.281, RFC 3261, RFC 3264, RFC 2190,  
RFC 3407, RFC 2833

**USER INTERFACE & FEATURES**

Simplified user interface  
Heads-up remote control  
Seamless call escalation to a group call  
Graphical user interface administration console  
Multiple languages supported  
Do Not Disturb mode

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Video mute  
picture-in-picture

**LIFESIZE CLOUD-BASED SERVICE2**

Seamless call escalation for video and voice participants  
Calendar, meeting directory, favorites, unified searchable directory  
Automatic provisioning  
Guest calling  
Single button recording and sharing  
Mobile calling  
Video network management  
Secure firewall traversal, plus NAT  
Automatic software updates

**SECURITY**

Ability to disable HTTP, SSH services  
H.235 (AES) encryption support including strict compliance  
TLS/SRTP support  
Kensington Security Slot

**INTELLIGENT NETWORKING FEATURES**

Adaptive motion control (AMC) including forward error correction  
(FEC) for superior video quality in all network conditions  
NAT/firewall traversal (H.460/SIP)  
Auto bandwidth detection  
DIRECTORY & ADDRESS BOOK  
Up to 10,000 directory entries

**Global search tool**

LDAP support/H.350 compliant  
Calendar/meeting directory support  
H.323 URI dialing support (Annex O)

**SYSTEM MANAGEMENT**

Web interface  
Auto configuration  
SNMP  
Backup and restore capability  
2 x USB 3.0  
Serial support  
VISCA™ support

**POWER**

AC voltage 100–240V, 50–60 Hz, 2.5A via external power supply

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**ENVIRONMENTAL DATA**

Operating temperature: 0°C (32°F) to 40°C (104°F)  
Operating humidity: 15% to 85%, noncondensing  
Storage temperature: -20°C (-4°F) to 60°C (140°F)  
Storage humidity: 10% to 90%, noncondensing

**VIDEO DEVICE DIMENSIONS**

Width: 365 mm (14.37 in.)  
Depth: 163 mm (6.42 in.)  
Height: 43.8 mm (1.72 in.)  
Weight: 1.53 Kg (3.37 lbs)

**MOUNTING OPTIONS**

Mounting holes: 2 x M5 screw holes 307 mm (12 in.) apart  
Mounting screws: 2 x M5 screws (Max insertion depth: 3.8 mm)

LifeSize Icon 600-DSS-1 yr  
LifeSize Small Account - 1 yr

**2. Video projektor VIVITEK DH268**

Native Resolution 1080p (1920 x1080)  
Brightness 3500 ANSI Lumens  
Contrast Ratio 15,000:1  
Max. Supported Resolution WUXGA (1920 x1200) @60Hz  
Native Aspect Ratio 16:9  
Lamp Life and Type 5,000 / 7,000 / 10,000 Hours (Normal / Eco. / Dynamic Eco. Mode), 203W  
Display Type Single chip DLP® Technology by Texas Instruments  
Chip Size 0.65" DMD  
Throw Ratio 1.37 - 1.64 : 1  
Image Size (Diagonal) 40" - 240"  
Projection Distance 1.1 - 8.3 m  
Projection Lens F = 2.42 - 2.62, f = 19.0 - 22.65 mm  
Zoom Ratio 1.2x  
Offset 106.4%  
Keystone Correction Vertical: +/-40°  
Speakers 2W  
I/O Connection Ports VGA-In (15pin D-Sub) (x2), HDMI Number of Ports (x2), S-Video, Composite  
Video, Audio-In (Mini-Jack), VGA-Out (15pin D-Sub), Audio-Out (Mini-Jack), RS-232, USB miniB  
(Service)  
Dimensions (W x D x H) 332 x 243 x 107 mm  
Weight 2.6 kg  
Noise Level 31dB / 28dB (Normal / Eco. Mode)  
Power Supply: AC 100-240V, 50/60Hz Consumption: 203W (Eco. Mode), 240W (Normal Mode),  
<0.5W (Standby)  
3D Ready(DLP link, PC+Video) Yes  
Spare Lamp P/NXX5050002200

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Remote Control P/N XX5040005400  
Standard Accessories VGA Cable, User Manual (CD), Quick Start Guide, Warranty Card (by region),  
Remote Controller (with battery), AC Power Cord  
Optional Accessories Spare Lamp P/N: XX5050002200, Remote Control P/N: XX5040005400,  
Carrying Case P/N  
Warranty Entry Warranty: 2 years projector / 1 year on lamp or 1.000 hours whichever comes  
first, Education Warranty: 5 years projector / 3 years on lamp or 2.000 hours whichever comes first  
UPC Code 813097023346

### 3. Document Camera Epson DC21

Camera:  
Output Signals / Resolution:  
VGA: SXGA (1280 x 1024), XGA (1024 x 768), WXGA (1280 x 800), HD (1360 x 768), 1080p (1920 x  
1080)  
USB: VGA, SVGA, XGA, SXGA, WXGA, 720p, 1080p  
HDMI: 480p/720p/1080p  
Frame Rate:  
30 fps max.

Imaging Element:  
Pick-up device: 1/2.7" CMOS sensor  
Effective pixels: 1920 x 1080, 2 megapixels  
White Balance: Auto  
Exposure: Adjustable  
Brightness: Adjustable  
Lighting Source:  
Upper: White LED x 2  
Brightness: 250 lx or above @ A3 shooting area

#### Optics:

**Lens:**F-number: 3.4-5 **Capture Area:**Max: 11.7" x 20.7" (at 1080p); 11.7" x 16.5" (at XGA) **Zoom:**10x  
digital zoom, 12x optical zoom **Focus:**Automatically with one-touch button **Iris:**250 lx or above @ A3  
shooting area

#### Functions:

**Image Rotation:**Camera Head Rotation: 180 degrees (Horizontal/Vertical) **Internal Memory:**SD card  
slot (SD/SDHC only) <sup>1</sup>**User Functions:**Zoom, Freeze, Auto Focus, Focus Lock, LED, Brightness, Contrast,  
Negative, Black and White, Split Screen, Playback, Video Capture, Digital Scroll (pan/tilt), Flicker  
Reduction, Image Rotation, Source (PC/ DC), Auto-detect Aspect, Video Recording, Video Playing

#### Interface:

Input Terminal:  
HDMI  
Computer In (VGA)  
Display Out (VGA)

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USB-B (for connection to PC/Mac®)  
SD Card Slot1

**Application Software:**

Language:

13 languages

Driver:

TWAIN (for Windows)

Functions:

Rotation, Zoom (+, -, selectable, x1), Auto Focus, Freeze, Record, Time-lapse, Picture Control  
(Brightness, Contrast, White Balance, Auto White Balance)

Saving Format:

Still Image: JPG, BMP, PNG

Video (Windows): AVI

Video (Mac): MOV

Other: PDF, EIT

**General:**

Operating Systems:

Windows® 7, Windows 8, Windows 10, Windows Vista®, Mac OS® X 10.7.x, 10.8.x, 10.9.x, 10.10.x,  
10.11.x

Temperature:

41 ° to 95 °F (5 ° to 35 °C)

Humidity:

20 - 80%

Weight:

5.8 lb

Security:

Kensington® lock support, Metal security bar, Security mounting holes

**4. Nikon SET + NIKON ECLIPSE E100 LED MV R Mikroskop E100**

Optical system CFI Infinity Optical System, Simplified Kohler's Illumination System

Illumination High luminescent white LED illuminator (Eco-illumination)

6V20W halogen lamp, Compliant multi-voltage (100 V-240 V)

Eyepieces (F.O.V., mm)

(anti-mold\*1) With diopter adjustment

E1-CFI 10X (18)

CFI E 15X (12)

Focusing Coaxial coarse/fine focusing, Cross roller guide, Focusing stroke: 22 mm, Coarse: 37.7  
mm/rotation, Fine: 0.2 mm/rotation,

Coarse motion torque adjustable

Tubes (anti-mold\*1) Interpupillary distance adjustment : 47 mm to 75 mm, Inclination angle:  
30°, 360° rotatable

E2-TB Binocular Tube

E2-TF Trinocular Tube, Eyepiece/Port: 100/0, 0/100

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Nosepieces      Quadruple nosepiece (within main body), Revolving mechanism with multiple ball bearings, Elastic nosepiece grip-ring

Stages      Rectangular mechanical stage (within main body), with specimen holder, with vernier calibrations, Cross travel: 76 (X) x 40 (Y) mm, Stage size: 150 (W) x 134 (D) x 16 (H) mm

Objectives (NA / W.D., mm) (anti-mold\*1)

CFI BE Plan Achromat 4X (0.1 / 25)

CFI BE Plan Achromat 10X (0.25 / 6.7)

CFI BE Plan Achromat 20X (0.4 / 3.7)

CFI BE Plan Achromat 40X (0.65 / 0.6)

CFI BE Plan Achromat 60X (0.8 / 0.25)

CFI BE Plan Achromat 100X Oil (1.25 / 0.14)

CFI BE Plan Achromat DL10X (0.25 / 6.7)

CFI BE Plan Achromat DL40X (0.65 / 0.6)

CFI BE Plan Achromat DL100X Oil (1.25 / 0.14)

Condensers

YS-CA Abbe Condenser N.A. 1.25, Aperture diaphragm with position guide marking for respective objectives, 33-mm Blue Filter attachable

YS100 Phase condenser (optional)

Observation methods\*2

Brightfield, Darkfield, Phase contrast

Optional accessories      Phase contrast attachment, Object marker, Darkfield ring unit, Mirror unit, Cord hanger, Storage case

Power consumption (max.)      Normal value: 3 W (LED model), 33 W (halogen model)

Weight (approx.)      6 kg (Binocular standard set)

Set include:

1. MCA72200 Eclipse E100 LED MV R Main

Body with quadruple nosepiece, built-in doubleplate mechanical stage right handle

2. LED illuminator base, supplied with field lens unit, vinyl cover

3. MCB72101 E2-TB Binocular Tube EU

3. MCK70106 E1-CFI Eyepiece 10X EU with diopter adjustment (FN 18) x2pcs

4. MCL51100 YS-CA Abbe Condenser with objective position guide marking, NA 1.25

5. MRN70041 CFI BE Plan Achromat 4X EU, N.A. 0.10, W.D. 25mm

6. MRN70101 CFI BE Plan Achromat 10X EU, N.A. 0.25, W.D. 6.7mm

7. MRN70401 CFI BE Plan Achromat 40X EU, N.A. 0.65, W.D. 0.6mm

8. MRN71901 CFI BE Plan Achromat 100X Oil EU, N.A. 1.25, W.D. 0.14mm, oil immersion, spring-loaded

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**5. Video projektor  
(16:9) - VIVITEK DH268**

**VIDEO-PROJECTOR DLP Tehnology Resolution Full HD 1920x1080**

Native Resolution 1080p (1920 x1080)  
Brightness 3500 ANSI Lumens  
Contrast Ratio 15,000:1  
Max. Supported Resolution WUXGA (1920 x1200) @60Hz  
Native Aspect Ratio 16:9  
Lamp Life and Type 5,000 / 7,000 / 10,000 Hours (Normal / Eco. / Dynamic Eco. Mode), 203W  
Display Type Single chip DLP® Technology by Texas Instruments  
Chip Size 0.65" DMD  
Throw Ratio 1.37 - 1.64 : 1  
Image Size (Diagonal) 40" - 240"  
Projection Distance 1.1 - 8.3 m  
Projection Lens F = 2.42 - 2.62, f = 19.0 - 22.65 mm  
Zoom Ratio 1.2x  
Offset 106.4%  
Keystone Correction Vertical: +/-40°  
Speakers 2W  
I/O Connection Ports VGA-In (15pin D-Sub) (x2), HDMI Number of Ports (x2), S-Video, Composite  
Video, Audio-In (Mini-Jack), VGA-Out (15pin D-Sub), Audio-Out (Mini-Jack), RS-232, USB miniB  
(Service)  
Dimensions (W x D x H) 332 x 243 x 107 mm  
Weight 2.6 kg  
3D Ready(DLP link, PC+Video) Yes  
Spare Lamp P/NXX5050002200  
Remote Control P/N XX5040005400  
Standard Accessories VGA Cable, User Manual (CD), Quick Start Guide, Warranty Card (by region),  
Remote Controller (with battery), AC Power Cord  
Optional Accessories Spare Lamp P/N: XX5050002200, Remote Control P/N: XX5040005400,  
Carrying Case P/N  
Warranty Entry Warranty: 2 years projector / 1 year on lamp or 1.000 hours whichever comes  
first, Education Warranty: 5 years projector / 3 years on lamp or 2.000 hours whichever comes first  
UPC Code 813097023346

**6. Desktop računar sa softverom + monitor**

CPU Core i3, i3-7100, 3,90GHz, 3MB, LGA1151, Kaby Lake, HD graphics 630, 14nm  
Asus Intel MB H110M-R/C/SI 1151, HDMI,DVI-D,D-SUB  
DIMM DDR4 8GB 2400MHz Samsung  
WD 1TB SATA III 64MB WD10EZEX Blue 3.5"  
Kingston SSD A400 120GB 2.5" SATA 3.0 SA400S37/120GBK  
Gigabyte NVD GT 710 2GB DDR5 64bit GV-N710D5SL-2GL  
Win 10 PRO OEM  
Antec NSK 4100+500w LC-Power 500h  
ASUS DVD RW interni DRW-24D5MT , crni, bulk, internal, SATA Picture/Display

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Tastatura: LOGITECH K120 OEM YU 920-  
002642

Miš: LOGITECH B100 OEM Black

- **Monitor 22 Philips 223V5LSB2/10 VGA**

LCD panel type

TFT-LCD

Backlight type

W-LED system

Panel Size

21.5 inch/54.6 cm

Effective viewing area

476.64 (H) x 268.11 (V)

Aspect ratio

16:9

Optimum resolution

1920 x 1080 @ 60 Hz

Response time (typical)

5 ms

Brightness

200 cd/m<sup>2</sup>

SmartContrast

10,000,000:1

Contrast ratio (typical)

600:1

Pixel pitch

0.248 x 0.248 mm

Viewing angle

90° (H)/65° (V)

@ C/R > 10

Display colours

16.7 M

Scanning Frequency

30-83 kHz (H) / 56-76 Hz (V)

sRGB

Yes

Connectivity

Signal Input

VGA (Analogue)

Sync Input

Separate Sync

Convenience

User convenience

Auto/Down

4:3 Wide/Up

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Brightness/Back  
Menu/OK  
Power On/Off  
OSD Languages  
Brazil Portuguese  
Czech  
Dutch  
English  
Finnish  
French  
German  
Greek  
Hungarian  
Italian  
Japanese  
Korean  
Polish  
Portuguese  
Russian  
Simplified Chinese  
Spanish  
Swedish  
Traditional Chinese  
Turkish  
Ukrainian  
Other convenience  
Kensington lock  
VESA mount (100 x 100 mm)  
Plug and Play Compatibility  
DDC/CI  
Mac OS X  
sRGB  
Windows 7  
Windows 8  
Stand  
Tilt  
-5/20 degree  
Power  
On mode  
15.3 W (typ.) (EnergyStar 7.0 test method)  
Standby mode  
0.5 W  
Off mode  
0.5 W  
Power LED indicator  
Operation - White

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KONKURSNA DOKUMENTACIJA ZA OBJEDINJENU NABAVKU OPREME,  
za potrebe Univerziteta u Nišu, Univerziteta u Beogradu, Univerziteta u Novom Sadu i  
Univerziteta u Kragujevcu partnera na ERASMUS+ projektu br. 598434-EPP-1-2018-1-  
RS-EPPKA2-CBHE-JP „ Strengthening Teaching Competences in Higher Education in  
Natural and Mathematical Sciences” (TECOMP)

*Broj nabavke 3/2019*

Standby mode - White (flashing)  
Power supply  
Built-in  
100-240 VAC, 50-60 Hz  
Dimensions  
Product with stand (mm)  
503 x 376 x 213 mm  
Product without stand (mm)  
503 x 316 x 50 mm  
Packaging in mm (W x H x D)  
555 x 414 x 107 mm  
Weight  
Product with stand (kg)  
2.61 kg  
Product without stand (kg)  
2.35 kg  
Product with packaging (kg)  
3.87 kg  
Operating conditions  
Temperature range (operation)  
0°C to 40°C °C  
Temperature range (storage)  
-20°C to 60°C °C  
Relative humidity  
20%–80% %  
Altitude  
Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)  
MTBF  
30,000 hour(s)  
Sustainability  
Environmental and energy  
EnergyStar 7.0  
RoHS  
Lead-free  
Mercury Free  
Recyclable packaging material  
100 %  
Compliance and standards  
Regulatory Approvals  
BSMI  
CE Mark  
FCC Class B  
GOST  
PSB  
SASO  
SEMKO

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TUV/ISO9241-307

cETLus

WEEE

Cabinet

Colour

Black

Finish

Hairline (front bezel)/Texture (rear cover)

**7. Štampač HP LaserJet Pro M521dn**

**HP LaserJet Pro MFP M521dn Specifikacije**

**FUNCTIONS**

Print, copy, scan, fax

**MULTITASKING SUPPORTED**

Yes

**PRINT SPEED BLACK**

Normal: Up to 40 ppm [1] Measured using ISO/IEC 24734, excludes first set of test documents. For more information see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). Exact speed varies depending on the system configuration, software application, driver, and document complexity.

**PRINT SPEED COLOR**

Normal: [1] Measured using ISO/IEC 24734, excludes first set of test documents. For more information see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). Exact speed varies depending on the system configuration, software application, driver, and document complexity.

**FIRST PAGE OUT (READY)**

Black: As fast as 8.0 sec [2] Exact speed varies depending on the system configuration, software application, driver and document complexity.

**FIRST PAGE OUT (SLEEP)**

Black: [2] Exact speed varies depending on the system configuration, software application, driver and document complexity.

**FIRST COPY OUT**

[2] Exact speed varies depending on the system configuration, software application, driver and document complexity.

**FIRST COPY OUT (SLEEP)**

[2] Exact speed varies depending on the system configuration, software application, driver and document complexity.

**DUTY CYCLE (MONTHLY, A4)**

Up to 75000 pages Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Color LaserJet devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups.

**RECOMMENDED MONTHLY PAGE VOLUME**

2000 to 6000 HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.

**PRINT TECHNOLOGY**

Laser

**PRINT QUALITY BLACK (BEST)**

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Up to 1200 x 1200 dpi

PRINT LANGUAGES

HP PCL 6; HP PCL 5; HP Postscript Level 3 emulation, PCLm  
DISPLAY

8.89 cm touchscreen, LCD (colour graphics)

PROCESSOR SPEED

800 MHz

**AUTOMATIC PAPER SENSOR**

No

**REPLACEMENT CARTRIDGES**

HP LaserJet Black Cartridge CE255A (~6000 pages based on ISO/IEC 19752); HP LaserJet Black  
Cartridge CE255X (~12,500 pages based on ISO/IEC 19752)

**HP EPRINT CAPABILITY**

Yes

**MOBILE PRINTING CAPABILITY**

HP ePrint; Apple AirPrint™; Mopria™-certified; Mobile Apps

**WIRELESS CAPABILITY**

No

**CONNECTIVITY, STANDARD**

1 Hi-Speed USB 2.0 Device; 1 Hi-Speed USB 2.0 Host; 1 Gigabit Ethernet 10/100/1000Base-TX; 1  
Telecom; 1 Phone

**CONNECTIVITY, OPTIONAL**

HP Jetdirect ew2500 802.11b/g Wireless Print Server J8021A

**NETWORK READY**

Standard (built-in Gigabit Ethernet)

**MINIMUM SYSTEM REQUIREMENTS**

Windows 10 (32-bit/64-bit), Windows 8 (32-bit/64-bit), Windows 7 (32-bit/64-bit), Windows Vista  
(32-bit/64-bit): 1 GHz 32-bit (x86) or 64-bit (x64) processor, 1 GB RAM (32-bit) or 2 GB RAM (64-bit),  
400 MB available hard disk space, CD/DVD-ROM or Internet, USB or network port Mac OSX v10.6;  
PowerPC G4, G5, or Intel® Core™ Processor; 500 MB free hard disk space; CD-ROM/DVD-ROM or  
Internet; USB or Network port

**COMPATIBLE OPERATING SYSTEMS**

Full software installs supported on: Windows 10 (32-bit/64-bit), Windows 8 (32-bit/64-bit), Windows  
7 (32-bit/64-bit), Windows Vista (32-bit/64-bit); Driver only installs supported on: Windows 2012,  
Windows Server 2008 (32-bit/64-bit), Windows Server 2003 32-bit (SP3 or higher); Mac OS X v10.6.8  
and later; Linpus Linux (9.4, 9.5), Red Hat Enterprise Linux 5.0 (supported with a pre-built package);  
SUSE Linux (10.3, 11.0, 11, 11.1, 11.2), Fedora (9, 9.0, 10, 10.0, 11.0, 11, 12, 12.0), Ubuntu (8.04,  
8.04.1, 8.04.2, 8.10, 9.04, 9.10, 10.04), Debian (5.0, 5.0.1, 5.0.2, 5.0.3) (supported by the automatic  
installer); HP-UX 11 and Solaris 8/9

**OPERATING SYSTEM (SUPPORTED NOTE)**

Windows 7 / 2008 R2 SP1, Windows XP (64-bit) SP2 and higher, Windows Server 2012, Windows  
Server 2008 (Standard Edition), Windows Server 2008 Enterprise Edition), Windows Server 2003  
(Standard Edition), Windows Server 2003 (Enterprise Edition), Windows Server 2003 (64-bit), SP1  
(x86 and x86-64) only support print driver and scan driver.

**MEMORY**

256 MB

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**MEMORY, MAXIMUM**

256 MB

**INTERNAL STORAGE**

None

**PAPER HANDLING INPUT, STANDARD**

100-sheet multipurpose tray, 500-sheet input tray 2, 50-sheet Automatic Document Feeder (ADF)

**PAPER HANDLING INPUT, OPTIONAL**

Optional 500-sheet tray (add up to 1 tray)

**PAPER HANDLING OUTPUT, STANDARD**

250-sheet output bin, 100-sheet rear output bin

**MAXIMUM OUTPUT CAPACITY (SHEETS)**

Up to 350 sheets

**DUPLEX PRINTING**

Automatic (standard)

**MEDIA SIZES SUPPORTED**

Tray 1: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Postcard (JIS), DPostcard (JIS), Envelope (B5, C5, C6, DL); Tray 2, optional Tray 3: A4; A5; A6; RA4; B5 (JIS), B6 (JIS), 10 x 15 cm, Postcard (JIS), DPostcard (JIS)

**MEDIA SIZES, CUSTOM**

Tray 1: 76 x 127 to 216 x 356 mm; tray 2, optional 500-sheet tray 3: 105 x 148 to 216 x 356 mm

**MEDIA TYPES**

Paper (bond, colour, letterhead, plain, preprinted, prepunched, recycled, rough); envelopes, labels, cardstock, transparencies, user-defined

**MEDIA WEIGHT, SUPPORTED**Tray 1: 52 to 199 g/m<sup>2</sup>; Tray 2, 3: 52 to 120 g/m<sup>2</sup>**MEDIA WEIGHTS, SUPPORTED ADF**60 to 90 g/m<sup>2</sup>**SCANNER TYPE**

Flatbed, ADF

**SCAN RESOLUTION, OPTICAL**

Up to 300 dpi (colour, greyscale and monochrome, ADF); Up to 1200 dpi (colour, greyscale and monochrome, flatbed)

**SCAN SIZE (ADF), MAXIMUM**

216 x 356 mm

**SCAN SIZE (ADF), MINIMUM**

127 x 177 mm

**SCAN SPEED (NORMAL, A4)**

Up to 19 ppm (black &amp; white), up to 14 ppm (colour)

**DUPLEX ADF SCANNING**

Yes

**AUTOMATIC DOCUMENT FEEDER CAPACITY**

Standard, 50 sheets

**SCAN INPUT MODES**

From PC: Solution Center Lite (Windows Vista, Windows XP) or Device Stage (Windows 7, 8); TWAIN-compliant or WIA-compliant software

**COPY SPEED (NORMAL)**

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Black: Up to 40 ppm Color: First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). Exact speed varies depending on the system configuration, software application, driver, and document complexity.

**COPY RESOLUTION (BLACK TEXT)**

Up to 600 x 600 dpi

**COPY RESOLUTION (COLOR TEXT AND GRAPHICS)**

Up to 600 x 600 dpi

**COPY REDUCE / ENLARGE SETTINGS**

25 to 400%

**COPIES, MAXIMUM**

Up to 99 copies

**FAXING**

Yes

**FAX TRANSMISSION SPEED**

33.6 kbps [4] Based on standard ITU-T test image #1 at standard resolution. More complicated pages or higher resolution will take longer and use more memory.

**FAX MEMORY**

Up to 250 pages

**FAX RESOLUTION BLACK (BEST)**

Up to 300 x 300 dpi

**FAX SPEED DIALS, MAXIMUM NUMBER**

Up to 100 numbers (each can contain 100 numbers)

**FAX BROADCAST LOCATIONS**

100 locations

**POWER**

Input voltage: 220 to 240 VAC (+/- 10%), 50/60Hz (+/- 3 Hz)

**POWER CONSUMPTION**

760 watts (printing), 18.2 watts (ready), 4.3 watts (sleep), 0.3 watts (off). Typical Electricity Consumption (TEC): 2.812 kWh/week. Values subject to change. Power numbers are the highest values measured using all standard voltages. See [hp.com/support](http://hp.com/support) for current information. Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty.

**ENERGY EFFICIENCY****ENERGY STAR®** qualified, **CECP**, **EPEAT® Silver****BLUE ANGEL COMPLIANT**

No; Please refer to the ECI document

**OPERATING TEMPERATURE RANGE**

10 to 32.5°C

**RECOMMENDED OPERATING HUMIDITY RANGE**

30 to 70% RH

**ACOUSTIC POWER EMISSIONS (READY)**

Inaudible Acoustic values are subject to change. For current information see [hp.com/support](http://hp.com/support). Configuration tested: LaserJet Pro M521dw, simplex printing, A4 paper at an average of 40 ppm. LaserJet Pro M521dw, ADF copy and print simplex using A4 paper.

**ACOUSTIC PRESSURE EMISSIONS BYSTANDER (ACTIVE, PRINTING)**

54 dB(A)

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### WHAT'S IN THE BOX

HP LaserJet Pro MFP M521dn; includes built-in automatic two-sided printing; built-in 10/100/1000T Gigabit Ethernet; HP Black LaserJet Toner Cartridge (~6000 pages); Printer documentation and software on CD-ROM; Installation guide, Support flyer, Warranty card; Power cord; Fax cable.

### CABLE INCLUDED

No, please purchase USB cable separately

### SOFTWARE INCLUDED

Windows: HP Installer/Uninstaller, HP PCL 6 print driver, HP WIA Scan Driver, HP TWAIN Scan Driver, HP Scan, HP Fax Setup Wizard, HP Send Fax, HP Fax Print Driver, Status Alerts, HP Update, DXP; Mac: HP Installer/Uninstaller, HP Postscript driver, HP Scan, HP Setup Assistant, HP Fax Print Driver, HP Utility, HP Alerts, HP Firmware Updater

### WARRANTY

One-year warranty. Warranty and support options vary by product, country and local legal requirements. Go to <http://www.hp.com/support> to learn about HP award winning service and support options in your region.

### 8. Hard disk - HD SAS 12G 1.2TB 10K 2.5" EP hot plug

HDD size 2.5"  
HDD capacity 1200 GB  
HDD speed 10000 RPM  
Interface SAS  
Type HDD  
Component for Server/workstation  
Hot-swap  
HDD interface transfer rate 12 Gbit/s  
Certification AF 512e  
Power  
Operating voltage 5 V  
Additional information  
Warranty 1 Year

### 9. 4TB 3.5" SATA LFF 7.2K HDD Hot-Swap

Digital Storage Capacity 4 TB  
Hard Disk Rotational Speed 7,200 rpm  
Hard-Drive Size —  
Hard Disk Form Factor 3.5 in  
Hardware Connectivity SATA 6.0 Gb/s  
Item Dimensions —  
Item Weight —  
Size 4 TB

### 10. Router Mikrotik RB3011UiAS-RM

#### Specifications

#### Details

Product code RB3011UiAS-RM

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Architecture ARM 32bit  
CPU IPQ-8064  
CPU core count 2  
CPU nominal frequency 1.4 GHz  
Dimensions 443x92x44mm  
License level 5  
Operating System RouterOS  
Size of RAM 1 GB  
Storage size 128 MB  
Storage type NAND  
Tested ambient temperature -20°C to 70°C

**Powering**

## Details

PoE in Passive PoE  
PoE out Passive PoE  
PoE in input Voltage 10-30 V  
Number of DC inputs 2 (PoE-IN, DC jack)  
DC jack input Voltage 10-30 V  
Max out per port output (input < 30 V) 600 mA  
Max total out (A) 600 mA  
Max power consumption 30 W  
Max power consumption without attachments 10 W

**Ethernet**

## Details

10/100/1000 Ethernet ports 10

**Fiber**

## Details

SFP ports 1

**Peripherals**

## Details

Serial port RJ45  
Number of USB ports 1  
USB Power Reset Yes  
USB slot type USB 3.0 type A  
Max USB current (A) 1

**Other**

## Details

PCB temperature monitor Yes  
Voltage Monitor Yes

**11. MAXTOR eksterni HDD M3 Portable - HX-M401TCB/GM 4 TB, Crna, 2.5", USB 3.0**

Opšte karakteristike

Oblik 2.5 inča Kapacitet 1TB

Karakteristike

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Maxtor MAXTOR M3 Portable 1TB 2,5" crni eksterni hard disk STSHXM101TCBM Format: 2,5"  
Kapacitet diska: 1TB Povezivost: USB 3,0 Protok: 4,8 Gbps Serija: M3 Portable Podržane tehnologije:  
SafetyKey, Napajanje: USB 5V-Priključci: USB 3,0 Micro-B Boja: Crna Dim.: 112mm x 82mm x 19,6mm  
Masa: 297g Pakovanje: USB 3,0 kabl Garancija: 2 godine

**12. SSD SATA3 480GB Kingston A400 500/450MB/s, SA400S37/480G**

Opšte karakteristike

Oblik 2.5 inča Kapacitet 480GB

Karakteristike

Kapacitet: 480GB Interfejs: SATA III Protok: 6Gbps Sekvencionalan upis: 450MB/s Sekvencionalno  
čitanje: 450MB/s Ostalo - Serija: SSDNow V300 Napomena: LSI SandForce kontroler Fizičke  
karakteristike - Dim.: 100,1mm 69,8mm x 7mm Masa: 86g Pakovanje: 2,5

**13. Video projector Projektor - SONY 105-LUMEN WVGA DLP PICO PROJECTOR**

Image Display

Display System DLP

Native Chip Resolution 854 x 480 (WVGA)

Max Brightness 105 Lumens

Aspect Ratio Native: 16:9

Contrast Ratio 400:1

Color Depth 8-Bit (16.78 Million Colors)

Lens

Throw Distance 3.77 - 11.32' / 1.149 - 3.45 m

Projection Size 40 - 120" / 101.60 - 304.80 cm

Features

Keystone Correction Auto

Built-In Speaker Yes

Speaker Power 1W

Input/Output Connectors

Inputs/Outputs 1 x HDMI with MHL Support (HDMI Type-A) Audio, Video Input

1 x 1/8" / 3.5 mm Mini Headphone Output

1 x USB 2.0 (USB Type-A) Power Output

Memory Card Slot None

Wireless LAN / Wi-Fi None

General

Expected Lamp Life Medium Brightness: 50,000 Hours

DC Power Requirements 5 VDC

Battery Capacity 5000 mAh

Operating Temperature 32 to 95°F / 0 to 35°C

Dimensions (W x H x D) 3.3 x 0.6 x 5.9" / 83.0 x 16.0 x 150.0 mm Without protrusions

Weight 9.88 oz / 280 g

Packaging Info

Package Weight 1.52 lb

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Box Dimensions (LxWxH) 8.1 x 4.5 x 2.15"

**14. Video projektor** Epson Europe EB-1780W Projector WXGA  
Portable Projector

## TECHNOLOGY

Projection System 3LCD Technology, RGB liquid crystal shutter

LCD Panel 0.59 inch with C2 Fine

## IMAGE

Colour Light Output 3,000 lumen- 1,900 lumen (economy)

White Light Output 3,000 lumen - 1,900 lumen (economy)

Resolution WXGA, 1280 x 800, 16:10

Contrast Ratio 10,000 : 1

Lamp 206 W, 4,000 h durability, 7,000 h durability (economy mode)

Keystone Correction Auto vertical:  $\pm 30^\circ$ , Manual horizontal  $\pm 30^\circ$ 

Colour Reproduction Upto 1.07 billion colours

High Definition HD ready

Aspect Ratio 16:10

Light source Lamp

Colour Processing 10 Bits

2D Vertical Refresh Rate 100 Hz - 120 Hz

## OPTICAL

Projection Ratio 1.04 - 1.26:1

Zoom Manual, Factor: 1 - 1.2

Image Size 30 inches - 300 inches

Projection Distance Wide 0.7 m - 6.8 m

Projection Distance Tele 0.8 m - 8.2 m

Projection Distance Wide/Tele 1.35 m - 1.62 m ( 60 inch screen)

Projection Lens F Number 1.58 - 1.7

Focal Distance 13.52 mm - 16.22 mm

Focus Manual

Offset 10 : 1

## CONNECTIVITY

USB Display Function 3 in 1: Image / Mouse / Sound

Interfaces USB 2.0 Type A, USB 2.0 Type B, VGA in, HDMI in, Composite in, Stereo mini jack audio in,  
MHL, Wireless LAN IEEE 802.11b/g/n

Epson iProjection App Ad-Hoc / Infrastructure

## ADVANCED FEATURES

Security Kensington lock, Wireless LAN security, Password protection

3D No

Features AV Mute Slide, Built-in speaker, Document Camera Compatible, JPEG Viewer, MHL  
audio/video interface, PC Free, Quick Corner, Split-Screen-Function, iProjection set-up by QR  
code

Video Colour Modes Blackboard, Cinema, Dynamic, Presentation, sRGB, DICOM SIM

## GENERAL

Energy Use 277 W, 200 W (economy), 0.34 W (standby)

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Product dimensions 292 x 213 x 44 mm (Width x Depth x Height)

Product weight 1.8 kg

Noise Level Normal: 39 dB (A) - Economy: 30 dB (A)

Included Software EasyMP Multi PC Projection

Loudspeaker 1 W

Colour White / Black

Supply Voltage AC 100 V - 240 V, 50 Hz - 60 Hz

OTHER

Warranty 36 months On-site service, Lamp: 12 months or 1,000 h

Optional warranty extension available

**15. Video projektor  
1200****EPSON Projektor Ultra Short Throw EH-LS100 3LCD, Laser, 1920 x****TEHNOLOGIJE :**

Sistem projekcije 3LCD

**OSVETLJENJE :**

Tip osvetljenja Laser

Osvetljenje (ANSI lumena) 4.000

Radni vek (standardni režim) 20.000 h

Radni vek (ekonomični režim) 30.000 h

**OBJEKTIV :**

Otvor blende 1.6

Dužina fokusa 4.2 mm

Tip fokusiranja Ručno

Digitalni zoom 1.35x

**SLIKA :**

Osnovna rezolucija 1920 x 1200 (Full HD)

Veličina slike 70" - 130"

Odnos stranica 16:10

Udaljenost projekcije 0.41 m - 0.78 m ( 90" ekran)

Koeficijent dometa 0.27 - 0.37:1

**AUDIO :**

Zvučnici 16W

**POVEZIVANJE :**

Wi-Fi Preko Wi-Fi USB adaptera

LAN Da

Priključci USB 2.0 Tip A (2x), USB 2.0 Tip B, RS-232C, VGA ulaz, VGA izlaz, HDMI ulaz (3x),  
kompozitni ulaz, MHL, Stereo mini jack audio izlaz, Stereo mini jack audio izlaz (2x)**FIZIČKE KARAKTERISTIKE :**

Boja Crna

Dimenzije 494 x 437 x 188 mm (ŠxVxD)

Masa 11 kg

Prava potrošača Zagarantovana sva prava kupaca po osnovu zakona o zaštiti potrošača

EAN 8715946640563

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**16. Laptop MacBook Pro 13" Touch Bar MR9Q2ZE/A Intel Core i5 8259U/8GB/256GB, INT  
KEYBOARD, Space Grey**

Specifications for Apple MacBook Pro 13 256GB Space Grey

Product type Notebook

Display

Display size 33.8 cm (13.3")

Display surface Glossy

Physical resolution 2560 x 1600

Aspect ratio 16:10

Touchscreen No

Processor

Processor family Intel Core i5

RAM

RAM 8 GB

RAM type LPDDR3

RAM (max.) 8 GB

Operating system

Operating system macOS

Graphics

Graphics type Onboard / -

Graphics Intel Iris Plus Graphics 655

Storage medium

SSD 256 GB

Connectivity

Wireless WLAN , Bluetooth

Connectors 1 x 3.5 mm jack male , 4 x Thunderbolt 3

Drives

Drives -

Performance

Battery life (max.) 10 hours

Battery technology Li-poly

Battery capacity 54.5 Wh

Special features

Special features Touch Bar , Webcam , Force Touch trackpad

Physical properties

Dimensions (W x H x D) 304 x 15 x 212 mm

Weight class 1.0 - 1.5 kg

Design

Colour Space grey

Sustainability

Standards Energy Star

Includes

Includes Power supply , Charging cable

Manufacturer's warranty 1-year bring-in (see manufacturer's website for details)

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### 17. Apple USB-C Digital AV Multiport Adapter MJ1K2ZM/A

This original Apple multiport audio and video adapter lets you connect your MacBook with a Type-C port to an HDMI display, and of course, that's not all. The Apple MJ1K2ZM/A multiport adapter offers you the possibility to turn a Type-C port of your MacBook into three useful ports: HDMI, USB, and USB Type-C.

#### Technical data:

- Original Apple USB-C adapter with three different ports that offer various possibilities
- HDMI port lets you mirror the display of your MacBook to a bigger screen of your TV with an HDMI interface
- Thanks to its USB port you can connect an external USB device or sync and charge your iPhone, iPad or iPod
- You can also recharge your MacBook while using the Apple multiport adapter because it has a Type-C port
- The Apple USB-C multiport adapter supports Ultra HD (UHD) resolution up to 3840 x 2160 pixels
- Note: The Apple USB-C HDMI multiport adapter is not compatible with the G-Tech G-DRIVE mobile USB 3.0 Hard Drive

### 18. Apple USB-C VGA Multiport Adapter MJ1L2ZM/A

#### Specification

Apple USB-C VGA Multiport Adapter - VGA adapter

Type VGA adapter

Features Sync and charge

Connectors USB-C - male

Connectors (Second End) USB-C - female | HD-15 (VGA) - female | USB Type A - female

Designed For 11-inch iPad Pro; iMac Pro; MacBook (Early 2015, Early 2016, Mid 2017); MacBook Pro (Late 2016, Mid 2017)

#### Extended Specification

##### General

Features Sync and charge

Type VGA adapter

##### Compatibility Information

Designed For Apple 11-inch iPad Pro | Apple iMac Pro | Apple MacBook (Early 2015, Early 2016, Mid 2017) | Apple MacBook Pro (Late 2016, Mid 2017)

##### Connectivity

Connectors 24 pin USB-C - male

Connectors (Second End) 24 pin USB-C - female | 15 pin HD D-Sub (HD-15) - female | 9 pin USB Type A - female

### 19. Tablet iPad mini MUU32HC/A, 256 GB, 7.9", Space Gray, Wifi

NETWORK Technology

GSM / HSPA / LTE

LAUNCH Announced 2019, March

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Status Available. Released 2019, March

**BODY** Dimensions 203.2 x 134.8 x 6.1 mm (8.0 x 5.31 x 0.24 in)

Weight 300.5 g (Wi-Fi) / 308.2 g (3G/LTE) (10.86 oz)

**SIM** Nano-SIM, Electronic SIM card (eSIM)

Stylus support

**DISPLAY** Type IPS LCD capacitive touchscreen, 16M colors

Size 7.9 inches, 193.3 cm<sup>2</sup> (~70.6% screen-to-body ratio)

Resolution 1536 x 2048 pixels, 4:3 ratio (~324 ppi density)

Protection Scratch-resistant glass, oleophobic coating

DCI-P3

True-tone

**PLATFORM** OS iOS 12.1.3

Chipset Apple A12 Bionic (7 nm)

CPU Hexa-core (2x2.5 GHz Vortex + 4x1.6 GHz Tempest)

GPU Apple GPU (4-core graphics)

**MEMORY** Card slot No

Internal 64/256 GB, 3 GB RAM

**MAIN CAMERA** Single 8 MP, f/2.4, 32mm (standard), 1.12µm, AF

Features HDR

Video 1080p@30fps

**SELFIE CAMERA** Single 7 MP, f/2.2, 31mm (standard)

Features HDR

Video 1080p@30fps

**SOUND** Loudspeaker Yes, with stereo speakers

3.5mm jack Yes

Active noise cancellation with dedicated mic

**COMMS** WLAN Wi-Fi 802.11 a/b/g/n/ac, dual-band, hotspot

Bluetooth 5.0, A2DP, EDR

**GPS** Yes, with A-GPS, GLONASS (Wi-Fi + Cellular model only)

Radio No

USB 2.0, proprietary reversible connector

**FEATURES** Sensors Fingerprint (front-mounted), accelerometer, gyro, compass, barometer  
Siri natural language commands and dictation

**BATTERY** Non-removable Li-Ion 5124 mAh battery (19.1 Wh)

Talk time Up to 10 h (multimedia)

**MISC** Colors Space Gray, Silver, Gold

Models A2126, A2124, A2133, A2125

## 20. Apple Pencil MK0C2ZM/A

Apple Pencil - stylus

**Product Type** Stylus

Intended For Tablet

**Wireless Interface** Bluetooth

**Package Content** Stylus, pen tip, lightning adapter

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**Designed For** 10.5-inch iPad Air (3rd generation); 10.5-inch iPad Pro; 12.9-inch iPad Pro (1st generation, 2nd generation); 9.7-inch iPad (6th generation); 9.7-inch iPad Pro; iPad mini 5

**Extended Specification****General**

**Intended For** Tablet

**Package Content** Stylus, pen tip, lightning adapter

**Product Type** Stylus

**Wireless Interface** Bluetooth

**Compatibility Information**

**Designed For** Apple 10.5-inch iPad Air (3rd generation) ; Apple 10.5-inch iPad Pro ; Apple 12.9-inch iPad Pro (1st generation, 2nd generation) ; Apple 9.7-inch iPad (6th generation) ; Apple 9.7-inch iPad Pro ; Apple iPad mini 5

**Connections**

**Connections** Apple Lightning – Lightning

**21. Tablet - Apple iPad mini 4 Smart Cover MKLV2ZM/A Dark Grey****Apple MKLV2ZM/A Specs**

**Max Screen Size** 7.9"

**Exterior Material** Polyurethane

**Closure Type** Magnetic

**Stylus Holder** None

**Exterior Dimensions** 8.2 x 6 x 0.3" / 20.9 x 15.3 x 0.8 cm

**Weight** 0.3 lb / 0.2 kg

**Packaging Info**

**Package Weight** 0.35 lb

**Box Dimensions (LxWxH)** 8.1 x 5.9 x 0.3"

**22. Mrežni uređaj - HPE Aruba 2530 48G Switch****Technical Specifications****Differentiator**

Cost-effective 52-port fully managed Gigabit Layer 2 switch.

This model has 48x 10/100/1000 ports and four Gigabit SFP ports.

**Ports**

(48) RJ-45 autosensing 10/100/1000 ports

(4) fixed Gigabit Ethernet SFP ports

**Memory and processor**

ARM9E @ 800 MHz

128 MB flash

Packet buffer size: 3 MB dynamically allocated

256 MB DDR3 DIMM

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Tel./Fax. +381 11 3544644

Tax. No. SR101032283

Reg. No. 01109085262

Account: :

205-18364-92 [Komercijalna Banka]

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Latency  
100 Mb Latency: < 7.4  $\mu$ s  
1000 Mb Latency: < 2.3  $\mu$ s  
Throughput  
up to 77.3 Mpps  
Switching capacity  
104 Gbps  
Stacking capabilities  
Virtual  
16 switches  
Management features  
Aruba Central and Aruba AirWave Network Management  
IMC—Intelligent Management Center  
command-line interface  
Web browser  
configuration menu  
out-of-band management (serial RS-232C or Micro USB)  
IEEE 802.3 Ethernet MIB  
Repeater MIB  
Ethernet Interface MIB AirWave Network Management  
Input voltage  
100 - 127 / 200 - 240 VAC, rated  
Power consumption  
59.5 W (maximum)  
Heat dissipation  
203 BTU/hr (214.17 kJ/hr)  
Minimum dimensions ( H x W x D) 44.3 x 25.4 x 4.45 cm  
Weight 3.08 kg  
Warranty  
Limited Lifetime Warranty: See [www.hpe.com/networking/warrantysummary](http://www.hpe.com/networking/warrantysummary) for warranty and  
support information included with your product purchase.  
Software releases: for details on the software releases available with your product purchase  
refer to [www.hpe.com/networking/warrantysummary](http://www.hpe.com/networking/warrantysummary).

**23. UPS APC SMT3000RMI2U, SMART RM 3000VA**

Technical Specifications  
Print Technical Specification  
Download  
Output  
Output power capacity  
2.7kWatts / 3.0kVA  
Max Configurable Power (Watts)  
2.7kWatts / 3.0kVA  
Nominal Output Voltage  
230V

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Output Voltage Note

Configurable for 220 : 230 or 240 nominal output voltage

Output Frequency (sync to mains)

47 - 53 Hz for 50 Hz nominal, 57 - 63 Hz for 60 Hz nominal

Other Output Voltages

220, 240

Topology

Line Interactive

Waveform type

Sine wave

Output Connections

(3) IEC Jumpers (Battery Backup)

(1) IEC 320 C19 (Battery Backup)

(8) IEC 320 C13 (Battery Backup)

Transfer Time

4ms typical : 8ms maximum

Input

Nominal Input Voltage

230V

Input frequency

50/60 Hz +/- 3 Hz (auto sensing)

Input Connections

British BS1363A, IEC-320 C20, Schuko CEE 7/EU1-16P

Cord Length

2meters

Input voltage range for main operations

160 - 286V

Input voltage adjustable range for mains operation

151 - 302V

Number of Power Cords

1

Other Input Voltages

220, 240

Batteries & Runtime

Battery type

Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof

Typical recharge time

3hour(s)

Replacement Battery

RBC43

Expected Battery Life (years)

3 - 5

RBC Quantity

1

Runtime

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View Runtime Graph  
View Runtime Chart  
Efficiency  
View Efficiency Graph  
Communications & Management  
Interface Port(s)  
USB  
Control panel  
LED status display with On Line : On Battery : Replace Battery and Overload indicators, Multi-function  
LCD status and control console  
Audible Alarm  
Alarm when on battery : distinctive low battery alarm : configurable delays  
Available SmartSlot™ Interface Quantity  
1  
Surge Protection and Filtering  
Surge energy rating  
320Joules  
Physical  
Maximum Height  
86MM, 8.6CM  
Maximum Width  
480MM, 48.0CM  
Maximum Depth  
683MM, 68.3CM  
Rack Height  
2U  
Net Weight  
44.28KG  
Shipping weight  
51.7KG  
Shipping Height  
254MM, 25.4CM  
Shipping Width  
600MM, 60.0CM  
Shipping Depth  
980MM, 98.0CM  
Units per Pallet  
8.0  
Environmental  
Operating Temperature  
0 - 40 °C  
Operating Relative Humidity  
0 - 95 %  
Operating Elevation  
0-3000meters

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Storage Temperature  
-15 - 45 °C  
Storage Relative Humidity  
0 - 95 %  
Storage Elevation  
0-15000meters  
Audible noise at 1 meter from surface of unit  
55.0dBA  
Online thermal dissipation  
348.0BTU/hr  
Conformance  
Approvals  
CE, EAC, EN 60950, EN/IEC 62040-1, EN/IEC 62040-2, GS Mark, IRAM, RCM, VDE, WEEE  
Standard warranty  
3 years repair or replace (excluding battery) and 2 year for battery  
Sustainable Offer Status  
RoHS  
Compliant  
REACH  
REACH: Contains No SVHCs  
PEP  
Available in Documentation tab  
EOL  
Available in Documentation tab

**24. UPS APC BX1400U-GR, Back UPS 1400VA/700W**

**Specifikacije i detalji**

Šifra artikla 4765270  
EAN kod 731304315933  
Model BX1400U-GR  
Snaga 1400VA/700W  
Tip Line-Interactive  
Baterija APCRBC113  
Punjenje baterije 8 sati  
Autonomija rada 8 min na 400W, 2 min na 700W  
Vrste izlaza 4x Šuko  
URL proizvođača Link

**25. Hard disk SYNOLOGY NAS DiskStation DS118 1 GB, 1,14 TB, 36W**

CPU  
CPU Model Realtek RTD1296  
CPU Architecture 64-bit  
CPU Frequency Quad Core 1.4 GHz

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**Hardware Encryption Engine**

Hardware Transcoding Engine 10-bit H.265 (HEVC), MPEG-4 Part 2, MPEG-2, VC-1; maximum resolution: 4K (4096 x 2160); maximum frame rate per second (FPS): 60

**Memory**

System Memory 1 GB DDR4

Notes Synology reserves the right to replace memory modules with the same or higher frequency based on supplier's product life cycle status. Rest assured that the compatibility and stability have been strictly verified with the same benchmark to ensure identical performance.

**Storage**

Drive Bays 1

Compatible Drive Type\* (See all supported drives)

3.5" SATA HDD

2.5" SATA HDD (with optional 2.5" Disk Holder)

2.5" SATA SSD (with optional 2.5" Disk Holder)

Maximum Internal Raw Capacity 16 TB (16 TB drive x 1) (Capacity may vary by RAID types)

Maximum Single Volume Size 108 TB

Hot Swappable Drive

**Notes**

"Compatible drive type" indicates the drives that have been tested to be compatible with Synology products. This term does not indicate the maximum connection speed of each drive bay.

The maximum single volume size is not directly related to the maximum raw capacity. (Learn more)

**External Ports**

RJ-45 1GbE LAN Port 1

USB 3.0 Port 2

**File System**

**Internal Drives**

EXT4

**External Drives**

EXT4

EXT3

FAT

NTFS

HFS+

exFAT\*

Notes exFAT Access is purchased separately in Package Center.

**Appearance**

Size (Height x Width x Depth) 166 mm x 71 mm x 224 mm

Weight 0.7 kg

**Others**

System Fan 60 mm x 60 mm x 1 pcs

Fan Speed Mode

Full-Speed Mode

Cool Mode

Quiet Mode

Low-power Mode

Brightness adjustable front LED indicators  
Power Recovery  
Noise Level\* 16.7 dB(A)  
Scheduled Power On/Off  
Wake on LAN/WAN  
Power Supply Unit / Adapter 36W  
AC Input Power Voltage 100V to 240V AC  
Power Frequency 50/60Hz, Single Phase  
Power Consumption\* 9.4 W (Access)  
4.22 W (HDD Hibernation)  
British Thermal Unit 32.1 BTU/hr (Access)  
14.41 BTU/hr (HDD Hibernation)  
Temperature  
Operating Temperature 5°C to 40°C (40°F to 104°F)  
Storage Temperature -20°C to 60°C (-5°F to 140°F)  
Relative Humidity 5% to 95% RH  
Certification  
EAC  
CCC  
RCM  
KC  
FCC  
CE  
BSMI  
Warranty 2 Years  
Notes  
The warranty period starts from the purchase date as stated on your purchase receipt. (Learn more)  
Power consumption is measured when fully loaded with Western Digital 1TB WD10EFRX hard drive(s).  
Noise Level Testing Environment: Fully loaded with Seagate 2TB ST2000VN000 hard drive(s) in idle;  
Two G.R.A.S. Type 40AE microphones, each set up at 1 meter away from the Synology NAS front and rear; Background noise: 16.49-17.51 dB(A); Temperature: 24.25-25.75°C; Humidity: 58.2-61.8%  
DSM Specifications ( See more )  
Storage Management  
Maximum Internal Volume Number 1  
Maximum iSCSI Target Number 10  
Maximum iSCSI LUN 10  
SSD TRIM  
Supported RAID Type Basic  
File Services  
File Protocol CIFS/AFP/NFS/FTP/WebDAV  
Maximum Concurrent CIFS/AFP/FTP Connections 200  
Windows Access Control List (ACL) Integration  
NFS Kerberos Authentication  
Account & Shared Folder

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Maximum Local User Accounts 2,048

Maximum Local Groups 256

Maximum Shared Folder 256

Maximum Shared Folder Sync Tasks 4

Log Center

Syslog Events per Second 100

Add-on Packages (learn more about the complete add-on package list)

Synology Chat

Maximum Users 500

Notes

The number of concurrent HTTP connections for Synology Chat was configured to the maximum.

CPU and RAM usage were both under 80% when the number of maximum users was reached.

Cloud Station Server

Recommended Number of Hosted Files 100,000

Recommended Number of Concurrent Sync Clients 200 (the number of connections that can be maintained when the recommended number of hosted files was reached)

Notes

The maximum number of concurrently connected devices refers to the maximum number of devices that can remain connected at the same time.

The maximum number of hosted files refers to the maximum number of files that can be indexed and hosted by the Cloud Station Server service. RAM expansion was not used during testing.

Non-encrypted shared folders were used during the aforementioned testing.

Download Station

Maximum Concurrent Download Tasks 80

Notes Download Station version requirement: 3.8.14 or later version

exFAT Access (optional)

Media Server

DLNA Compliance

Moments

Facial recognition

Subject recognition

Surveillance Station

Maximum IP cam (Licenses required) 15 (including 2 Free License) (See All Supported IP Cameras)

Total FPS (H.264)\* 450 FPS @ 720p (1280x720)

180 FPS @ 1080p (1920x1080)

110 FPS @ 3M (2048x1536)

80 FPS @ 5M (2591x1944)

40 FPS @ 4K (3840x2160)

Total FPS (H.265)\* 450 FPS @ 720p (1280x720)

450 FPS @ 1080p (1920x1080)

210 FPS @ 3M (2048x1536)

120 FPS @ 5M (2591x1944)

60 FPS @ 4K (3840x2160)

Total FPS (MJPEG)\* 210 FPS @ 720p (1280x720)

70 FPS @ 1080p (1920x1080)

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50 FPS @ 3M (2048x1536)

30 FPS @ 5M (2591x1944)

Notes Surveillance Station throughput is tested with Axis network camera, using continuous recording with live view from Surveillance Station and motion detection by camera. Live view and recording are sharing the same stream from the camera.

Synology Drive

Recommended Number of Hosted Files 100,000 (applies to files indexed or hosted by Synology Drive. For file access through other standard protocols, refer to the File Services section above)

Recommended Number of Concurrent Sync Clients 200 (the number of connections that can be maintained when the recommended number of hosted files was reached)

Notes

Exceeding the limits above may result in longer response time in file operations.

EXT4 file system and non-encrypted shared folders were used during the aforementioned testing.

Synology Office

Maximum Users 200

Notes

Multiple files were opened for testing and each file was edited by 30 users simultaneously.

CPU and RAM usage were both under 80% when the number of maximum users was reached.

Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM

Video Station

Video Transcoding 4K Group 3 (See more)

Maximum Transcoding Channel Number 1 channel, 60 FPS @ 4K (4096 x 2160), H.265 (HEVC), 10-bit or

1 channel, 30 FPS @ 1080p (1920 x 1080), H.264 (AVC)/MPEG-4 Part 2 (XVID, DIVX5)/MPEG-2/VC-1

VPN Server

Maximum Connections 20

Environment &amp; Packaging

Environment RoHS Compliant

Packaging Content

Main Unit X 1

Accessory Pack X 1

AC Power Adapter X 1

RJ-45 LAN Cable X 1

Quick Installation Guide X 1

Optional Accessories

Surveillance Device License Pack

VS360HD

VS960HD

Disk Holder: Type C

**26. HDD WD 4TB SATA III, 64MB, 3.5", IntelliPower, Caviar Red - WD40EFRX 3.5", SATA III**

Tip Interni

Format 3.5"

Konekcija SATA III

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Kapacitet 4TB HDD  
Broj obrtaja Intellipower  
Buffer 64 MB  
Prava potrošača 36 meseci  
EAN 100263  
Razno NAS Hard drive

**27. Torba - Knomo SOUTHAMPTON 15.6inch – Grey SKU 43-401-BKG EAN code 5055385416194**

Made from a heritage-inspired herringbone twill, Knomo's Southampton 15.6" Laptop Backpack, in grey, accommodates all your essentials with style and class.

SKU: 43-401-BKG Warranty: 2 Years Weight: 0.91 k.g Material: Fabric Dimensions: 43cm/33cm/ 14cm

**28. USB mreža - Moshi USB-C to Gigabit Ethernet Adapter – Silver by Moshi**

Connects your USB-C laptop via Gigabit Ethernet for data transfer speeds up to 1000 Mbps.  
Anodized aluminum casing minimizes electromagnetic interference.  
Includes a pass-through USB port for connecting extra devices (USB 3.1 Gen 1).  
100% Plug-n-Play and Thunderbolt 3 compatible.  
Integrated Link/Activity LED indicators.

**29. Desktop HP 290 G2 Microtower PC - 4NU26EA Intel®Core™ i7-8700 3.2GHz (do 4.6 GHz), 8GB, Intel® UHD Graphics 630**

HP 290 G2 Microtower PC Specifications

**OPERATING SYSTEM**

FreeDOS 2.0

**PROCESSOR FAMILY**

8th Generation Intel® Core™ i7 processor

**PROCESSOR**

Intel® Core™ i7-8700 with Intel® UHD Graphics 630 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores)

**CHIPSET**

Intel® H370

**FORM FACTOR**

Microtower

**MEMORY**

8 GB DDR4-2666 SDRAM (1 X 8 GB) Transfer rates up to 2666 MT/s.

**MEMORY SLOTS**

2 DIMM

**INTERNAL DRIVE**

256 GB PCIe® NVMe™ SSD

**OPTICAL DRIVE**

DVD-Writer

**GRAPHICS**

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Integrated Intel® UHD Graphics 630

I/O PORT LOCATION

Front

**PORTS**

1 3-in-1 SD card reader; 1 headphone/microphone combo; 2 USB 3.1 Gen 1

I/O PORT LOCATION

Rear

EXTERNAL I/O PORTS FOOTNOTE NUMBER

[22,25]

I/O PORT LOCATION

Internal

EXTERNAL I/O PORTS FOOTNOTE NUMBER

[23]

I/O PORT LOCATION

Optional

EXTERNAL I/O PORTS FOOTNOTE NUMBER

[29]

**EXPANSION SLOTS**

1 PCIe; 1 PCIe x1; 1 PCIe x16; 1 SD media reader; 2 M.2

**NETWORK INTERFACE**

Integrated 10/100/1000M GbE

**POWER**

180 W internal power supply, up to 87% efficiency, active PFC

**OPERATING HUMIDITY RANGE**

10 to 90% RH

**DIMENSIONS (W X D X H)**

17 x 27.7 x 33.8 cm System dimensions may fluctuate due to configuration and manufacturing variances.

**WEIGHT**

5.4 kg Exact weight depends on configuration.

**SECURITY MANAGEMENT**

Lock slot; Trusted Platform Module (TPM) 2.0

**WARRANTY**

1 year (1-1-1) limited warranty and service offering includes 1 year of parts, labor and on-site repair.

Terms and conditions vary by country. Certain restrictions and exclusions apply.

**SOFTWARE INCLUDED**

**30. Monitor - Dell U2518D UltraSharp, IPS, 16:9, 2560x1440, 5ms, 1.000:1, 350cd/m2, pivot**

**Display**

Diagonal Viewing Size:

63.44 cm (25 inches)

Preset Display Area (H x V):

552.96 mm x 311.04 mm

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21.77 inches x 12.25 inches  
171992.7 mm<sup>2</sup> (266.59 inches<sup>2</sup>)

Aspect Ratio:  
16:9

Panel Type, Surface:  
In-Plane switching Technology

Maximum Preset Resolution:  
2560 x 1440 at 60 Hz

Viewing Angle:  
178° vertical / 178° horizontal

Pixel Pitch:  
0.216 mm x 0.216 mm

Pixel Per Inch (PPI):  
117.5

Contrast Ratio:  
1000 : 1 (typical)

Backlight Technology:  
LED

Brightness:  
350 cd/m<sup>2</sup> (typical)

Adjustability:  
Height adjustable (130 mm)  
Tilt (-5° to 21°)  
Swivel (-45° to 45°)  
Pivot (90°, clockwise & anti-clockwise directions)

Response Time:  
5ms (gray to gray)

PbP / PiP:  
PbP (No)  
PiP (No)

Daisy Chain Availability:  
Yes

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Dell Display Manager Compatibility:

Yes, Easy Arrange and other key features

Remote Asset Management:

Yes, via Dell Command | Monitor

Color Support:

Color Gamut (typical): 99% sRGB, 99% REC709, 79.3% DCI-P3

Color Depth: 16.7 Million colors

Color Calibration Accuracy:

Delta E < 2 (average)

Color Calibration SDK SW:

No

Color Calibration with X-rite colorimeter:

No

Flat Panel Mount Interface:

VESA (100 mm)

Display Screen Coating:

Anti-glare treatment of the front polarizer (3H) hard coating

Audio Output:

1 x Audio line-out

Connectivity

1 x DP (ver. 1.2)

1 x mDP (ver. 1.2)

1 x DP (ver. 1.2) out with MST

1 x HDMI (ver. 2.0)

1 x USB 3.0 port - Upstream

4 x USB 3.0 ports, including 2 x USB 3.0 BC1.2 charging capability at 2A (max)

Built-in Devices

USB 3.0 super-speed Hub (4 x USB 3.0 downstream ports, including 2 x USB 3.0 BC1.2 charging port at 2A max.)

Security

Security lock slot (cable lock sold separately)

Anti-theft stand lock slot (to panel)

Dimensions & Weight

Height with stand (Compressed ~ Extended):

397.2 mm ~ 527.2 mm

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15.64" ~ 20.76"

Depth:

200.1 mm

7.88"

Width:

567.6 mm

22.35"

Height without stand:

331.5 mm

13.05"

Depth without stand:

49.2 mm

1.94"

Width without stand:

567.6 mm

22.35"

Weight (panel only - for VESA mount):

3.44 kg

7.58 lb

Weight (with packaging):

8.33 kg

18.36 lb

Power

Voltage Required:

100-240 VAC / 50 or 60 Hz  $\pm$  3 Hz / 1.6 A (maximum)

Power Consumption (Operational):

28W (typical) / 110W (maximum) / 23.81W (Energy Star)

Power Consumption Stand by / Sleep:

Less than 0.5W

Environmental

Temperature Range:

Operating: 0°C to 40°C (32°F to 104°F)

Non-operating: -20°C to 60°C (-4°F to 140°F)

Humidity Range:

Operating: 10% to 80% (non-condensing)

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Non-Operating: 5% to 90% (non-condensing)

Altitude:

Operating: 5,000 m (16,404 ft) max

Non-Operating: 12,192 m (40,000 ft) max

Warranty

3-Year Advanced Exchange Service and Premium Panel Guarantee

**31. Zvučnik JABRA portable speakerphone SPEAK****510**

Bluetooth Da

3.5mm port Da

USB port Da

Autonomija baterije do 15 sati

Boja Crna

Opšte karakteristike

Boja Crna

**32. Web kamera HD Logitech C920, 15Mpix**

Model C920 HD PRO

Rezolucija Fotografija 15Mpix; Full HD 1080p video poziv na Skype; Full HD snimanje

Kompatibilnost Windows XP (SP3 or higher)/Vista/Win 7 (32-bit or 64-bit)

Boja Crna

Povezivanje USB 2.0 (USB 3.0 ready)

**33. HAMA 04163 STAR 63 STATIV SA TORBOM**

Model: Star 63

Tip: Stativ za fotoaparate i kamere, sa trostrano pokretnom glavom i pločicom

Podešavanje centralni stuba po visini: Ručicom za kontinualno podešavanje visine

Materijal: aluminijum

Navoj: 1/4" (6,4 mm)

Max. opterećenje: 4 kg

Stativ glava: Trostrano pokretna glava

Max. Visina: 166 cm

Min. Visina: 66 cm

Prečnik nožica: 26.7 mm

Težina: 1740 g

**34. PANASONIC Eneloop BK-3MCCE/4BE AA (LR6), 1900 mAh, 4/1**

Specifikacija

Šifra 15154

Kataloški Broj BK-3MCCE/4BE

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Podgrupa Artikla      Baterije za široku upotrebu (AA, AAA, C, D, 9V)  
Brend   Panasonic  
Nominalni Kapacitet    1900 mAh  
Hemija   Ni-MH  
Nominalni Napon        1.2 V  
Visina (mm)        50  
Prečnik Ø (mm)    14

**35. PANASONIC Eneloop BK-3MCCE/4BE AA (LR6), 1900 mAh, 4/1**

Specifikacija

Šifra    15154

Kataloški Broj   BK-3MCCE/4BE

Podgrupa Artikla      Baterije za široku upotrebu (AA, AAA, C, D, 9V)

Brend   Panasonic

Nominalni Kapacitet    1900 mAh

Hemija   Ni-MH

Nominalni Napon        1.2 V

Visina (mm)        50

Prečnik Ø (mm)    14

**36. Samsung T830 Galaxy Tab S4 WiFi Crni SMT830NZKASEE**

Processor

CPU Speed 2.35GHz, 1.9GHz

CPU Type

Octa-Core

Display Size (Main Display) 10.5" (267.2mm)

Resolution (Main Display) 2560 x 1600 (WQXGA)

Technology (Main Display)

Super AMOLED

Colour Depth (Main Display) 16M

S Pen Support Yes

Camera Main Camera - Resolution

13.0 MP

Main Camera - Auto Focus Yes

Front Camera – Resolution 8.0 MP

Main Camera – Flash Yes

Video Recording Resolution

UHD 4K (3840 x 2160) @30fps

**37. Tablet Galaxy Tab S 10.5" Book Cover Keyboard EJFT830UBEGUJ**

Product Identifiers

Brand   Samsung

MPN   EJFT830UBEGUJ

Ean    0887276269306

COMING - Computer Engineering d.o.o.

Toše Jovanovića 7

11030 Beograd, SErbia

Tel./Fax. +381 11 3544644

Tax. No. SR101032283

Reg. No. 01109085262

Account: :

205-18364-92 [Komercijalna Banka]

170-0000300226000-91 [HVB Bank]

265-1100310005099-78 Raiff.bank

GTIN 0887276269306  
UPC 0887276269306  
Model EJ-FT830UBEGUJ  
eBay Product ID (ePID) 12030630196

**Product Key Features**

Type Keyboard Folio Case  
Material Rigid Plastic  
Compatible Model For Samsung Galaxy Tab S, For Samsung Galaxy Book, For Samsung Galaxy  
Tab, For Samsung Galaxy Tab 4  
Modified Item No  
Color Black  
Custom Bundle No  
Compatible Brand For Samsung

Dimensions  
Weight 1.05lbs.

**Additional Product Features**

Non-Domestic Product No  
To Fit 10.5" Device

**38. LOGITECH MX Anywhere 2 Meteorite for Business MIS01237**

**Karakteristike**

Povezivost Bežični  
Frekventni opseg 2.4GHz  
Domet Do 10m  
Interfejs Bluetooth™, USB  
Tip senzora Laserski  
Rezolucija 1.200 dpi  
Baterija Litijum-polimerska 500mAh  
Podržane tehnologije Darkfield Laser Tracking™ (omogućava rad na bilo kojim površinama, čak i na  
staklu)

Ostalo Indikator statusa baterije

**Fizičke karakteristike**

Dimenzije 100.3mm x 61.6mm x 34.4mm

Masa 106g

Oblik Prilagođen desnoj ruci

Boja Siva

Pakovanje Kabl USB Micro-B za punjenje, Logitech Unifying USB nano primo-predajnik

Reklamacioni period

Reklamacioni period 24 meseca

EAN 5099206073012

COMING - Computer Engineering d.o.o.

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11030 Beograd, Srbija  
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