Overview

HP mt31 Mobile Thin Client

Front

1. Microphones (2)
2. Webcam
3. Webcam light
4. Fingerprint reader
5. Clickpad
6. Storage LED
7. SD Card reader

8. Headphone/microphone combo jack
9. USB 3.1 Gen 1 (power port)
10. Power button
11. Security lock slot (Lock sold separately.)

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 1

Overview

Rear

1. Power connector
2. Ethernet port (RJ-R45)
3. External VGA monitor port

4. HDMI port (Cable not included.)
5. USB 3.1 Gen 1
6. USB Type-C™ port

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 2

QuickSpecs

Overview

At a Glance

- Preinstalled with Windows 10 IoT Enterprise
- Intel® Celeron® 3867U with Intel® HD Graphics (1.8 GHz, 2 MB cache, 2 cores)[3,4]
- Full size HP Premium Keyboard, spill-resistant keyboard with a thin layer of mylar film to prevent minor spills
- Function keys provide control of features, including: standby mode, display brightness, external display, microphone mute, volume down, volume up, and backlight toggle for backlit keyboard (Select models only)
- Large Clickpad with gestures support
- Enhanced security features with preinstalled software and hardware options
- Optional HD webcam with dual-microphone array for video conferencing[1]
- HDMI port for connecting to high-resolution displays
- 33.7 cm (13.3") diagonal HD SVA anti-glare LED-backlit non-touch; 220 cd/m^2; 45% sRGB (1366 x 768)
- Battery life up to 15 hours
- HP 3-cell, 48 WHr Li-ion battery
- Passed MIL-STD testing[2]

1. Sold separately or as an optional feature.
2. MIL-STD-810G testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

NOTE: See important legal disclosures for all listed specs in their respective features sections.
NOTE: This product is available currently only in Japan.

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 3

QuickSpecs

Features

PRODUCT NAMES

HP mt31 Mobile Thin Client

OPERATING SYSTEMS

Preinstalled   Windows 10 IoT Enterprise

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. See http://www.windows.com/.

PROCESSORS

Intel® Celeron® 3867U with Intel® HD Graphics (1.8 GHz, 2 MB cache, 2 cores)[3,4]

Processors Family
Intel® Celeron® processor (3867U. Please refer to Microsoft support disclaimer)

3. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
5. **NOTE**: In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel® and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.

CHIPSET

Integrated with processor

GRAPHICS

Integrated
Intel® HD graphics[6]

6. HD content required to view HD images.

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 4

QuickSpecs

Features

DISPLAYS

33.7 cm (13.3") diagonal HD SVA anti-glare LED-backlit non-touch, 220 cd/m^2, 45% sRGB (1366 x 768)[6,7]

Multiple Display Video Output
HDMI (3840 x 2160)
USB-C (3840 x 2160)
VGA (2048 x 1536)

Display Size
13.3"
33.7 cm (13.3")

6. HD content required to view HD images.
7. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary M.2 Storage
128 GB M.2 2280 SATA TLC SSD[8]

8. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less.

MEMORY

8 GB DDR4-2400 SDRAM (2 x 4 GB)[9]
4 GB DDR4-2400 SDRAM (1 x 4 GB)[9]

Maximum
8 GB DDR4-2400 SDRAM[9]

Memory Slots
2 SODIMM
Both slots are customer accessible / upgradeable
DDR4 PC4 SODIMMS, system runs at 2133
Supports Dual Channel Memory

9. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

NETWORKING/COMMUNICATIONS

Wireless LAN (WLAN)
Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) WiFi® and Bluetooth® 4.2 Combo (non-vPro™) [10]

Ethernet
Realtek RTL8111HSH Gigabit Ethernet

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 5

Features

10. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.

AUDIO/MULTIMEDIA

Audio
2 Integrated stereo speakers
Integrated dual array microphone

Webcam
HD webcam[6,7]

6. HD content required to view HD images.
7. Internet access required.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
HP Premium Keyboard (optional backlit)
Full-sized island-style, spill resistant

Pointing Device
Clickpad with multi-touch gesture support image sensor, taps enabled as default

Buttons and Function Keys
Separate launch buttons provide easy access to wireless on/off and speaker mute. Function keys provide control of features including: standby mode, display brightness, external display, microphone mute, volume down, volume up, and backlight toggle for backlit keyboard (select models only).

Function Keys
Start Menu: HP System Information
Fn + ESC: System Information
F1 - Display Switching
F2 - Blank
F3 - Brightness Down
F4 - Brightness Up
F5 - Speaker Mute
F6 - Volume Down
F7 – Volume Up
F8 - Mic Mute
F9 - Backlight Toggle (for backlit keyboard) or Blank
F10 - NumLock
F11 - Wifi Toggle
F12 – Sleep

Hidden Functions
Fn+R = Break
Fn+S = Sys Rq

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 6

Features

Fn+C = Scroll Lock

Pointing Devices
Clickpad with multi-touch gesture support image sensor, taps enabled as default

Gestures
Enabled by default Win 10 IoT E
2 Finger Scrolling
2 Finger Zoom (Pinch)
OSD (enable/disable)
3 finger flick = App switch
4 finger tap = Action Center

Disabled by default Win 10 IoT E
3 Finger Flick
2 Finger Rotate
Momentum Motion
1 Finger Vertical Scroll

SOFTWARE AND SECURITY

BIOS

HP BIOSphere Gen4[13]

HP DriveLock & Automatic DriveLock

BIOS Update via Network

Power On Authentication

Secure Erase[14]

Absolute Persistence Module[15]

Pre-boot Authentication

Software

HP Native Miracast Support[16]

HP Easy Shell

HP USB Port Manager

HP Noise Cancellation Software

Manageability Features

HP BIOS Config Utility (BCU)

HP Device Manager

HP ThinUpdate

Microsoft System Center Configuration Manager[20]

Client Security Software

HP Fingerprint Sensor

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 7

Features

HP Write Manager

Microsoft Defender[24]

TPM 2.0

13. HP BIOSphere Gen4 requires Intel® or AMD 8th Gen processors. Features may vary depending on the platform and configurations.
14. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.
15. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
16. Miracast via Wireless Display adapter is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast
24. Microsoft Defender Opt in and internet connection required for updates.

Recommended TC config for Microsoft Teams media optimization

	TC CPU	VMware Teams Optimization	Citrix Teams Optimization
t430	1.10 GHz 2 Core	–	–
t530	1.50 GHz 2 Core	–	–
t540	1.50 GHz 2 Core	–	–
t630	2.00 GHz 4 Core	✓	✓
t628	1.99 GHz 4 Core	–	✓
t638	2.00 GHz 4 Core	✓	✓
t640	2.40 GHz 2 Core	✓	✓
t730	2.70 GHz 4 Core	✓	✓
t740	3.25 GHz 4 Core	✓	✓
mt21	1.80 GHz 2 Core	–	✓
mt22	1.90 GHz 2 Core	–	✓
mt31	1.80 GHz 2 Core	–	✓
mt32	2.70 GHz 4 Core	✓	✓
mt45	2.10 GHz 4 Core	✓	✓

Not all configuration components are available in all regions/countries.

This product is only available for Japan

c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 8

Features

mt46	2.50 GHz 4 Core	✔	✔

- Not recommended, ✔ recommended

POWER

Power Supply
45 W HP Smart right angle 4.5mm AC adapter 2-prong (Japan only)[25]

Battery
3-cell, 48 Wh Long Life Li-ion[26]

Power Cord
2-wire plug - 1m (2-prong Japan only)[25]

Battery life
Up to 15 hours[27]

25. Availability may vary by country.
26. Battery is internal and not replaceable by customer. Serviceable by warranty.
27. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Weight
Starting at 3.28 lb[28]
Starting at 1.49 kg[28]

Dimensions (w x d x h)
12.83 x 9.21 x 0.78 in
32.6 x 23.4 x 1.98 cm

28. Weight will vary by configuration.

PORTS/SLOTS

Ports
1 USB 3.1 Type-C™ Gen 1 (Power delivery, DisplayPort™)
2 USB 3.1 Gen 1 (1 powered port)
1 HDMI 1.4b[29]
1 VGA
1 RJ-45

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 9

Features

1 AC power
1 headphone/microphone combo jack

Expansion Slots
1 multi-format digital media reader
Supports SD, SDHC, SDXC.

29. HDMI cable sold separately.
30. USB 3.1 type-C Gen1 port supports HP ALT mode.

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 10

Features

SERVICE AND SUPPORT

Warranty

HP Services offers 3-year and 1-year limited warranties and 90-day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at http://www.hp.com/go/cpc [30]

30. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

CERTIFICATION AND COMPLIANCE

ENERGY STAR® certified
EPEAT® Gold [31]
Low halogen [32]

31. EPEAT® registered where applicable. EPEAT® registration varies by country. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options
32. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 11

QuickSpecs

Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	**Nominal Operating Voltage**	19V
	Average Operating Power	Win 10
	Integrated graphics	4.49W
	Discrete Graphics	N/A
	Max Operating Power	UMA < 45W
Temperature	**Operating**	32° to 95° F (0° to 35° C)
	Non-operating	-4° to 140° F (-20° to 60° C)
Relative Humidity	**Operating**	10% to 90%, non-condensing
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
Shock	**Operating**	40 G, 2 ms, half-sine
	Non-operating	200 G, 2 ms, half-sine
Random Vibration	**Operating**	0.75 grms
	Non-operating	1.50 grms
Altitude (unpressurized)	**Operating**	-50 to 10,000 ft (-15.24 to 3,048 m)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Planned Industry Standard Certifications	**UL**	Yes
	CSA	Yes
	FCC Compliance	Yes
	ENERGY STAR 7.0®	Selected models[33]
	EPEAT	Registered Gold in United States[31]
	ICES	Yes
	Australia / NZ A-Tick Compliance	Yes
	CCC	Yes
	Japan VCCI Compliance	Yes
	KC	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	BNCI or BELUS	Yes
	CIT	Yes
	GOST	Yes
	Saudi Arabian Compliance (ICCP)	Yes
	SABS	Yes
	UKRSERTCOMPUTER	Yes

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021
Page 12

Technical Specifications

31. EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options.

33. Configurations of the HP ProBook 430 G4 is ENERGY STAR® qualified are identified as HP ProBook 430 G4 ENERGY STAR on HP websites and on http://www.energystar.gov.

DISPLAYS

13.3" diagonal HD SVA anti-glare LED-backlit non-touch; 220 cd/m²; 45% sRGB (1366 x 768)		
Outline Dimensions (W x H)	314.6 x 189.2 (mm) max	
Active Area	293.42 x 164.97 (mm)	
Weight	260 g max	
Diagonal Size	13.3 (inch)	
Thickness	3.0 (mm) max	
Interface	eDP 1.2	
LCD Mode	TN	
PPI		
Surface Treatment	Anti-Glare (AG)	
Touch Enabled	None	
Contrast Ratio	300:1 (typical)	
Refresh Rate	60 Hz	
Brightness	220 nits	
Pixel Resolution	1366 x 768 (HD)	
Format	RGB	
Backlight	LED	
Color Gamut Coverage	45%	
Color Depth	6 bits + Hi FRC	
Viewing Angle	SVA 45/45/25/35	

Note: All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 13

Technical Specifications

STORAGE AND DRIVES

SOLID STATE DRIVES

128GB 2280 M2 SATA-3 TLC Solid State Drive	**Form Factor**	M.2 2280
	Capacity	128 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	ATA-8, SATA 3.0
	Maximum Sequential Read	Up To 520 MB/s
	Maximum Sequential Write	Up To 450 MB/s
	Logical Blocks	250,069,680
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	DIPM; TRIM; DEVSLP

Not all configuration components are available in all regions/countries.

This product is only available for Japan

c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 14

QuickSpecs

Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Intel® 802.11 a/b/g/n/AC (2x2) WiFi and Bluetooth® Combo	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac
	Interoperability	Wi-Fi certified
	Frequency Band	802.11b/g/n • 2.402 – 2.482 GHz 802.11a/n • 4.9 – 4.95 GHz (Japan) • 5.15 – 5.25 GHz • 5.25 – 5.35 GHz • 5.47 – 5.725 GHz • 5.825 – 5.850 GHz
	Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) • 802.11ac : MCS0 ~ MCS7, (1SS) (20MHz, 40MHz, and 80MHz)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security[1]	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through CCX4 and CCX Lite • WAPI
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power[2]	• 802.11b : +16dBm minimum • 802.11g : +14dBm minimum • 802.11a : +14dBm minimum • 802.11n HT20(2.4GHz) : +14dBm minimum • 802.11n HT40(2.4GHz) : +12dBm minimum • 802.11n HT20(5GHz) : +14dBm minimum • 802.11n HT40(5GHz) : +12dBm minimum • 802.11ac 80MHz(5GHz) : +11dBm minimum

Not all configuration components are available in all regions/countries.

Page 15

This product is only available for Japan

c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Technical Specifications

Power Consumption	Transmit: 2.0 W (max) Receive: 1.6 W (max) Idle mode (PSP): 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connect Standby: 10 mW (WLAN+BT) Radio disabled: 5 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity[3]	802.11b, 1Mbps : -93.5dBm maximum 802.11b, 11Mbps : -84dBm maximum 802.11a/g, 6Mbps : -86dBm maximum 802.11a/g, 54Mbps : -72dBm maximum 802.11n, MCS07 : -67dBm maximum 802.11n, MCS15 : -64dBm maximum 802.11ac, MCS0 : -84dBm maximum 802.11ac, MCS9 : -59dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth® communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm
Weight	Type 2230 : 2.8g
Operating Voltage	3.3v +/- 9%
Temperature	Operating 14° to 158° F (−10° to 70° C) Non-operating −40° to 176° F (−40° to 80° C)
Humidity	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)
Altitude	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED White – Radio ON

1. Check latest software/driver release for updates on supported security features.
2. Maximum output power may vary by country according to local regulations.
3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth® 4.0/4.1/4.2 Wireless Technology

Bluetooth® Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps
	BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels
	Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Technical Specifications

Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of + 4 dBm for BR and EDR.
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
Electrical Interface	USB 2.0 compliant
Bluetooth® Software Supported **Link Topology**	Microsoft Windows Bluetooth® Software
Power Management	Microsoft Windows ACPI, and USB Bus Support
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Power Management	ETS 300 328, ETS 300 826
Certifications	Low Voltage Directive IEC950 UL, CSA, and CE Mark
Bluetooth® Profiles Supported	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy LE Privacy 1.2 –Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 17

QuickSpecs

Technical Specifications

POWER

HP 45W Smart AC Adapter	Dimensions (H x W x D)	3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)	
	Weight	0.386 lb (175g) max	
	Input	90 to 265 VAC	
		Input Efficiency	87.74% at 115Vac and 88.4% at 230Vac
		Input frequency range	47 to 63 Hz
		Input AC current	1.4 A at 90 VAC
	Output	Output power	45W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<8.0A
	Connector	4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords	
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Altitude	0 to 16,400 ft (0 to 5,000 m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	*CE Mark - full compliance with LVD and EMC directives	
		* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.	
		* MTBF - over 200,000 hours at 25°C ambient condition.	

HP 3-cell, Long Life 48 WHr Li-ion	Dimensions (H x W x L)	7.0. x180.48x88.95 mm (0.273 x 7.09 x 3.49 inch)	
	Weight	0.22 kg (0.48lb)	
	Cells/Type	3cell Lithium-Ion	
	Energy	Voltage	11.4V/ 10.95V
		Amp-hour capacity	4.212Ah /4.385Ah
		Watt-hour capacity	48Wh
	Temperature	Operating (Charging)	32˚ to 113˚ F (0˚ to 45˚ C)
		Operating (Discharging)	14˚ to 122˚ F (-10˚ to 60˚ C)
		Non-operating	-4˚ to 122˚ F (-20˚ to 60˚ C)

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 18

QuickSpecs

Technical Specifications

Battery Re-Charge Time	**System in OFF or Standby Mode**	<3 hours
Fuel Gauge LED	No	
Warranty	Refer to http://www.hp.com/support/batterywarranty/	
Optional Travel Battery Available	No	

EVIRONMENTAL & INDUSTRY

Environmental Data	Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: • IT ECO declaration • US ENERGY STAR® • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. Search keyword *generator* on HP's 3rd party option store for solar energy accessory at http://www.hp.com/go/options		
	System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".		
	Energy Consumption (in accordance with US ENERGY STAR® test method)	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
	Normal Operation (Short idle)	7.34 W	7.40 W	7.34 W
	Normal Operation (Long idle)	3.72 W	3.76 W	3.69 W
	Sleep	0.64 W	0.69 W	0.64 W
	Off	0.40 W	0.45 W	0.42 W
		Note: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.		
	Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
	Normal Operation (Short idle)	25 BTU/hr	25 BTU/hr	25 BTU/hr
	Normal Operation (Long idle)	13 BTU/hr	13 BTU/hr	13 BTU/hr
	Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
	Off	1 BTU/hr	2 BTU/hr	1 BTU/hr

Not all configuration components are available in all regions/countries.   Page 19
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Technical Specifications

*Note: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L_{WAd}, bels)	Sound Pressure (L_{pAm}, decibels)
Typically Configured – Idle	2.8	19
Fixed Disk – Random writes	2.9	19

Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 3 USB ports
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight Battery size: CR2032 (coin cell) Battery type: Lithium
Additional Information	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. • This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. • This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). • This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • This product contains 0% post-consumer recycled plastic (by wt.) • This product is 94.4% recycle-able when properly disposed of at end of life.

Packaging Materials	External:	PAPER/Corrugated	320 g
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	49 g
		PLASTIC/Polyethylene low density	8 g
	The plastic packaging material contains at least 50% recycled content.		
	The corrugated paper packaging materials contains at least 75% recycled content.		

Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf): • Asbestos • Certain Azo Colorants • Certain Brominated Flame Retardants – may not be used as flame retardants in plastics • Cadmium

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 20

Technical Specifications

		• Chlorinated Hydrocarbons • Chlorinated Paraffins • Formaldehyde • Halogenated Diphenyl Methanes • Lead carbonates and sulfates • Lead and Lead compounds • Mercuric Oxide Batteries • Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. • Ozone Depleting Substances • Polybrominated Biphenyls (PBBs) • Polybrominated Biphenyl Ethers (PBBEs) • Polybrominated Biphenyl Oxides (PBBOs) • Polychlorinated Biphenyl (PCB) • Polychlorinated Terphenyls (PCT) • Polyvinyl Chloride (PVC) – except for wires and cables, has been voluntarily removed from most applications. • Radioactive Substances • Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
	Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging: • Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. • Eliminate the use of ozone-depleting substances (ODS) in packaging materials. • Design packaging materials for ease of disassembly. • Maximize the use of post-consumer recycled content materials in packaging materials. • Use readily recyclable packaging materials such as paper and corrugated materials. • Reduce size and weight of packages to improve transportation fuel efficiency. • Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 21

Technical Specifications

	HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment:
		
		Global Citizenship Report
		    http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
		Eco-label certifications
		    http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
		ISO 14001 certificates:
		http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842
		http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

Country of Origin

China

Not all configuration components are available in all regions/countries.   Page 22
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

QuickSpecs

HP mt31 Mobile Thin Client

Options and Accessories (sold separately and availability may vary by country)

Type	Description	Part Number
Cases	HP Essential Top Load Case	H2W17AA
	HP Essential Backpack	H1D24AA
	HP Essential Messenger Case	H1D25AA
Docking	HP USB-C Dock G4	3FF69AA
	HP USB-C Mini Dock	1PM64AA
	HP 3005pr USB3 Port Replicator	Y4H06AA
	HP Thunderbolt Dock 120W G2	2UK37AA
	HP Thunderbolt Dock 120W G2 w/ Audio	3YE87AA
	HP Thunderbolt Dock G2 w/ Combo Cable	3TR87AA
	HP USB-C Travel Dock	T0K29AA
	HP USB-C Universal Dock	1MK33AA
	HP USB-C Universal Dock NF	3DV65AA
	HP Adjustable Display Stand	AW663AA
	HP Thunderbolt Dock Audio Module	3AQ21AA
	HP Thunderbolt Dock 120 W	3XB94AA
	HP Thunderbolt Dock G2 combo cable	3XB96AA
Input/Output	HP Slim Wireless Keyboard and Mouse	T6T83AA
	HP Ultra Mobile Wireless Mouse	T6L04AA
	HP USB Collaboration Keyboard	Z9N38AA
	HP Wireless Collaboration Keyboard	Z9N39AA
	HP USB Essential Keyboard and Mouse	H6L29AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP USB Travel Mouse	G1K28AA
	HP Ultrathin Wireless Mouse	L9V77AA
	HP Slim Bluetooth Mouse	F3J92AA
	HP Essential USB Mouse	2TX37AA
	HP HDMI to DVI Adapter	F5A28AA
	HP USB-C to DP	N9K78AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Stereo USB Headset	T1A67AA
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA
	HP 45W USB-C Power Adapter	1HE07AA
	HP 65W USB-C Power Adapter	1HE08AA
	HP 65W USB-C Slim Power Adapter	3PN48AA
	HP Power Bank	N9F71AA
	HP USB-C Notebook Power Bank	1TZ86AA
Storage	HP External USB Optical Drive	F2B56AA
Security	HP Essential Combination Lock	T0Y16AA
	HP Combination Lock	T0Y15AA

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 23

Options and Accessories (sold separately and availability may vary by country)

UCC	HP Keyed Cable lock	T0Y14AA
	HP Keyed Cable Lock 10mm	T1A62AA
	HP Conferencing Keyboard	K8P74AA
	HP UC Wireless Mono Headset	W3K08AA
	HP UC Wireless Duo Headset	W3K09AA
	HP UC Speaker Phone	K7V16AA
	HP UC Wired Headset	K7V17AA

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 24

Summary of Changes

Date of change:	Version History:		Description of change:
April 30, 2019	From v1 to v2	Changed	Intel Celeron 3865U to Intel Celeron 3867U
January 14, 2021	From v2 to v3	Changed	SOFTWARE AND SECURITY section

Not all configuration components are available in all regions/countries.
This product is only available for Japan
c06159406 — 16342 — Japan — Version 3 — January 14, 2021

Page 25