



HP LaserJet Pro MFP M130 series

Simple productivity. Simply done.

Keep things simple with a compact HP LaserJet Pro powered by JetIntelligence Toner cartridges. Print professional documents from a range of mobile devices,¹ scan, copy, fax (M130 fn/fw), and save energy with a wireless MFP designed for efficiency.



HP LaserJet Pro MFP M130nw



HP LaserJet Pro MFP M130fw

Highlights

- Print, scan, copy, and fax (fn/fw)
- Fast print speed (22 ppm A4)
- 35-page ADF (fn/fw) and fast scan speed (11 ppm A4)
- Scan to email, and network folders (M130fw)
- Fast FPOT from sleep (Auto-Off) mode
- 6.9 cm touchscreen (M130fw)
- HP ePrint, Apple AirPrint, WiFi Direct (nw/fn/fw)
- HP Auto-On/Auto-Off
- JetIntelligence



Automatic document feeder



Auto on/off



ePrint



Wireless direct



Precision black toner



Ethernet

Designed for efficiency

- Print, scan, copy, and fax (M130 fn/fw) with a compact HP LaserJet MFP that fits into tight workspaces.
- Wait less. Print up to 22 pages per minute,² with first pages ready in as fast as 7.3 seconds.³
- Help save energy with HP Auto-On/Auto-Off Technology.⁴
- Tackle tasks and scan to email and network folders from the 6.9 cm colour touchscreen⁵ (M130 fw).

Mobile printing made simple

- Print from iPhone® and iPad® with AirPrint®, which automatically scales jobs to the correct paper size.⁶
- Print with the ease of sending an email, right from a smartphone, tablet, or notebook, using HP ePrint.⁷
- Print directly from your mobile device to your Wi-Fi Direct® printer – without accessing the company network.⁸
- Send jobs from your smartphone, tablet, or PC to any company printer, using Google Cloud Print™ 2.0.⁹

HP quality – print after print

- Produce sharp text, bold blacks, and crisp graphics with precision black toner.
- Don't be fooled by alternatives that mimic Original HP. Help ensure you're getting the quality you paid for.
- Track toner levels with print gauge technology¹⁰ and produce the most prints possible.
- Quickly replace your cartridges, using auto seal removal and easy-open packaging.

Product walkaround

HP LaserJet Pro MFP M130fw

1. 35-sheet ADF
2. Flatbed scanner handles up to 216 by 297 mm paper
3. 6.9 cm (2.7-inch) colour touchscreen
4. Fax port, Hi-speed USB 2.0 port, Fast Ethernet network port, access port for optional lock
5. 100-sheet output bin
6. Top cover access to toner cartridges
7. Wi-Fi Direct printing
8. Built-in wireless networking (802.11b/g/n)
9. 150-sheet input tray with dust cover (shown open)



Series at a glance



Model	HP LaserJet Pro MFP M130a	HP LaserJet Pro MFP M130nw	HP LaserJet Pro MFP M130fn	HP LaserJet Pro MFP M130fw
Product number	G3Q57A	G3Q58A	G3Q59A	G3Q60A
Functions	Print, copy, scan		Print, copy, scan and fax	
Fax	No		Yes	
Print speed (black)	Up to 22 ppm			
Automatic document feeder (ADF)	No		35 sheets	
Control panel	ICON LCD	2-line LCD	2-line LCD with numeric keypad	6.9 cm (2.7-in) touchscreen, LCD (colour graphics)
Networking	No	Built-in Ethernet, Wi-Fi 802.11b/g/n	Built-in Ethernet	Built-in Ethernet, Wi-Fi 802.11 b/g/n
Mobile printing capability	Apple AirPrint™	Apple AirPrint™; HP ePrint; Google Cloud Print 2.0; Mopria-certified; Wi-Fi Direct®	Apple AirPrint™; HP ePrint; Google Cloud Print 2.0; Mopria-certified	Apple AirPrint™; HP ePrint; Google Cloud Print 2.0; Mopria-certified; Wi-Fi Direct®

Accessories, Supplies and Support

Supplies	CF217A HP 17A Black Original LaserJet Toner Cartridge (1,600 pages)
	CF219A HP 19A Original LaserJet Imaging Drum (12,000 pages)
	CHP110 HP Office Paper-500 sht/A4/210 x 297 mm ()
	CHP310 HP LaserJet Paper-500 sht/A4/210 x 297 mm ()
Service and Support	<p>UH757E HP 3 year Care Pack with Next Day Exchange for LaserJet Printers</p> <p>UH764E HP 3 year Care Pack with Return to Depot Support for LaserJet Printers (UH757E: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, UK, Czech, Greece, Hungary, Poland, Slovakia, UH764E: ME, Africa, South Africa, Israel, Turkey)</p>

Technical specifications

Model	HP LaserJet Pro MFP M130a	HP LaserJet Pro MFP M130nw	HP LaserJet Pro MFP M130fn	HP LaserJet Pro MFP M130fw
Product number	G3Q57A	G3Q58A	G3Q59A	G3Q60A
Functions	Print, copy, scan			
Control panel	ICON LCD: Dual digit numeric LCD display; Buttons (Up, Down, Cancel, Start Copy, Copy Setup); 3 LED indicator lights (Ready, Attention, Toner); Copy setting icons (Copies, Darker/Lighter, Reduce/Enlarge)	2-line LCD: 2-line LCD text display; Buttons (OK, Back, Forward/Backward, Cancel, Number of Copy, Darker/Lighter, Copy Menu, Start Copy, Main Setup, Wireless); 3 light-emitting diode (LED) indicator lights (Ready, Attention, Wireless).	2-line LCD with alphanumeric keypad: 2-line LCD text display; Buttons (OK, Back, Forward/Backward, Cancel, Number of Copy, Darker/Lighter, Copy Menu, Start Copy, Main Setup, Redial, Alphanumeric Keypad, Start Fax); 2 light-emitting diode (LED) indicator lights (Ready, Attention).	6.9 cm (2.7-in) touchscreen, LCD (colour graphics)
Print				
Print technology	Laser			
Print speed	Black (A4, normal) Up to 22 ppm;			
First page out	Black (A4, ready): As fast as 7.3sec; Black (A4, sleep): As fast as 8.1 sec;	Black (A4, ready): As fast as 7.3 sec; Black (A4, sleep): As fast as 7.5 sec;	Black (A4, ready): As fast as 7.3 sec; Black (A4, sleep): As fast as 8.1 sec;	Black (A4, ready): As fast as 7.3 sec; Black (A4, sleep): As fast as 8.8 sec;
Print resolution	Black (best): Up to 600 x 600 dpi, HP FastRes 1200 (1200 dpi quality); Technology: HP FastRes 600, HP FastRes 1200;			
Monthly duty cycle ¹	Up to 10,000 pages A4; Recommended monthly page volume ² : 150 to 1500			
Printer smart software features	Apple AirPrint™, Instant-on Technology, HP Auto-On/Auto-Off, JetIntelligence cartridges	HP ePrint, Apple AirPrint™, Instant-on Technology, HP Auto-On/Auto-Off, JetIntelligence cartridges; HP Smart App	HP ePrint, Apple AirPrint™, Instant-on Technology, HP Auto-On/Auto-Off, JetIntelligence cartridges	HP ePrint, Apple AirPrint™, Instant-on Technology, HP Auto-On/Auto-Off, JetIntelligence cartridges; HP Smart App
Standard print languages	PCLmS, URJ, PWG			
Print area	Print margins Top: 4 mm, Bottom: 4 mm, Left: 4 mm, Right: 4 mm; Maximum print area: 214 x 356 mm			
Duplex printing	Manual duplex			
Copy				
Copy speed ³	Black (A4): Up to 22 cpm			
Copier specifications	Number of copies; Lighter/Darker; Optimise; Paper; Multi-Page copy; Draft mode; Maximum number of copies: Up to 99 copies; Copy resolution: 600 x 600 dpi; Reduce/Enlarge: 25 to 400%;			
Scan				
Scan speed			Normal (A4): Up to 12 ppm;	
Scan file format	No	JPEG, PDF, PNG		
Scanner specifications	Scanner type: Flatbed; Scan technology: CIS; Scan input modes: Scanning via HP LaserJet Scan (Windows®); HP Director (Macintosh) or TWAIN-compliant or WIA-compliant software; Twain version: Version 2.1; Duplex ADF scanning: No; Scan size maximum (flatbed, ADF): 215.9 x 297 mm; Optical scan resolution: Up to 600 dpi (colour, flatbed); Up to 1200 dpi (monochrome, flatbed)	Scanner type: ADF; Flatbed; Scan technology: CIS; Scan input modes: Scanning via HP LaserJet Scan (Windows®); HP Director (Macintosh) or TWAIN-compliant or WIA-compliant software; Twain version: Version 2.1; Duplex ADF scanning: No; Scan size maximum (flatbed, ADF): 215.9 x 297 mm; Optical scan resolution: Up to 300 dpi (colour and monochrome, ADF); Up to 600 dpi (colour, flatbed); Up to 1200 dpi (monochrome, flatbed)	Scanner type: ADF; Flatbed; Scan technology: CIS; Scan input modes: Front control panel, scanning via HP LaserJet Scan (Windows®); HP Director (Macintosh) or TWAIN-compliant or WIA-compliant software; Twain version: Version 2.1; Duplex ADF scanning: No; Scan size maximum (flatbed, ADF): 215.9 x 297 mm; Optical scan resolution: Up to 300 dpi (colour and monochrome, ADF); Up to 600 dpi (colour, flatbed); Up to 1200 dpi (monochrome, flatbed)	Scanner type: ADF; Flatbed; Scan technology: CIS; Scan input modes: Front control panel, scanning via HP LaserJet Scan (Windows®); HP Director (Macintosh) or TWAIN-compliant or WIA-compliant software; Twain version: Version 2.1; Duplex ADF scanning: No; Scan size maximum (flatbed, ADF): 215.9 x 297 mm; Optical scan resolution: Up to 300 dpi (colour and monochrome, ADF); Up to 600 dpi (colour, flatbed); Up to 1200 dpi (monochrome, flatbed)

Model	HP LaserJet Pro MFP M130a	HP LaserJet Pro MFP M130nw	HP LaserJet Pro MFP M130fn	HP LaserJet Pro MFP M130fw
Product number	G3Q57A	G3Q58A	G3Q59A	G3Q60A
Scanner advanced features	No			Scan to email; Network folder
Recommended monthly scan volume ⁴	150 to 1,500			
Scannable area	Maximum media size (flatbed): 215.9 x 297 mm;		Maximum media size (flatbed): 215.9 x 297 mm; Minimum media size (ADF): 148.5 x 210 mm Maximum media size (ADF): 215.9 x 297 mm	
Bit depth/ Grey scale levels	24-bit / 256			
Digital sending	Standard: No			Standard: Scan to email; Scan to network folder
Fax				
Fax ²	No, No		Yes, 33.6 kbps	
Fax specifications			Fax memory: Up to 1,000 pages; Fax resolution: Standard: 203 x 98 dpi; Fine: 203 x 196 dpi; Superfine: 300 x 300 dpi (no halftone); Quick dialing: Up to 120 numbers (119 group dials); Telecom compliance: Fax Telecom: ES 203 021; R&TTE Directive 1999/5/EC (Annex II) with CE Marking (Europe); Other Telecom approvals as required by individual countries	Fax memory: Up to 1,000 pages; Fax resolution: Standard: 203 x 98 dpi; Fine: 203 x 196 dpi; Superfine: 300 x 300 dpi (no halftone); Quick dialing: Up to 120 numbers (119 group dials); Telecom compliance: Wireless telecommunications: EN 301 489-1 V1.9.2/EN 301 489-17 V2.2.1; EN 300 328 V1.9.1/EN 301 893 V1.8.1; IEC 62311:2007/EN 62311:2008; Fax Telecom: ES 203 021; R&TTE Directive 1999/5/EC (Annex II) with CE Marking (Europe); Other Telecom approvals as required by individual countries
Fax smart software features	No		Fax address book; Speed-dial; Fax billing codes; Fax archiving and forwarding; Block incoming faxes	
Processor speed	600 MHz			
Connectivity				
Standard	Hi-Speed USB 2.0 port (device)	Hi-Speed USB 2.0 port (device); Built-in Fast Ethernet 10/100Base-TX network port; Wireless	Hi-Speed USB 2.0 port (device); Built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out)	Hi-Speed USB 2.0 port (device); Built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); Wireless
Optional	No			
Wireless	No	Standard (Wi-Fi 802.11b/g/n)	No	Standard (Wi-Fi 802.11b/g/n)
Mobile printing capability	Apple AirPrint™	Apple AirPrint™; HP ePrint; Google Cloud Print 2.0; Mopria-certified; Wi-Fi Direct®	Apple AirPrint™; HP ePrint; Google Cloud Print 2.0; Mopria-certified	Apple AirPrint™; HP ePrint; Google Cloud Print 2.0; Mopria-certified; Wi-Fi Direct®
Supported network protocols	No	TCP/IP; IPv4; IPv6; IP Direct Mode; LPD; SLP; Bonjour; WS-Discovery; BOOTP/DHCP/AutoIP; WINS; SNMPv1/2/3; HTTP/HTTPS		
Network capabilities	No	Standard (built-in Ethernet, Wi-Fi 802.11b/g/n)	Standard (built-in Ethernet)	Standard (built-in Ethernet, Wi-Fi 802.11b/g/n)
Hard disk	No			
Memory	Standard: 128 MB; Maximum: 128 MB		Standard: 256 MB; Maximum: 256 MB	
Media handling				
Number of paper trays	Standard: 1 ; Maximum: 1			
Media types	Paper (laser, plain, photo, rough, vellum), envelopes, labels, cardstock, postcards			
Media size	Custom (metric): 76 x 127 to 216 x 356 mm ; Supported (metric): A4; A5; A6; B5 (JIS) ; ADF: No		Custom (metric): 76 x 127 to 216 x 356 mm ; Supported (metric): A4; A5; A6; B5 (JIS) ; ADF: A4	
Media handling	Standard input: 150-sheet input tray Standard output: 100-sheet output tray ADF: No		Standard input: 150-sheet input tray Standard output: 100-sheet output tray ADF: 35 sheets	
Media weight	60 to 163 g/m ² ; ADF: No		60 to 163 g/m ² ; ADF: 70 to 90 g/m ²	

Model	HP LaserJet Pro MFP M130a	HP LaserJet Pro MFP M130nw	HP LaserJet Pro MFP M130fn	HP LaserJet Pro MFP M130fw
Product number	G3Q57A	G3Q58A	G3Q59A	G3Q60A
Input capacity	Tray 1: Sheet 150; Envelopes: 10 Maximum: Up to 150 sheets ADF: No		Tray 1: Sheet 150; Envelopes: 10 Maximum: Up to 150 sheets ADF: 35 sheets	
Output capacity	Standard: Up to 100 sheets Envelopes: Up to 10 Maximum: Up to 100 sheets			
Compatible operating systems ⁶	Windows® 10, 8.1, 8, 7: 32-bit/64-bit, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer; Windows Vista®: 32-bit only, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8; Apple® OS X El Capitan (v10.11), OS X Yosemite (v10.10), OS X Mavericks (v10.9), 1 GB available hard disk space, Internet required, USB Linux (for more information, see http://hplipopensource.com/hplip-web/index.html)			
Compatible network operating systems	Windows® 10, 8.1, 8, 7: 32-bit/64-bit, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer; Windows Vista®: 32-bit only, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8; Apple® OS X El Capitan (v10.11), OS X Yosemite (v10.10), OS X Mavericks (v10.9), 1 GB available hard disk space, Internet required, USB Linux (for more information, see http://hplipopensource.com/hplip-web/index.html)			
Minimum system requirements	Windows: Windows® 10, 8.1, 8, 7: 32-bit/64-bit, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer; Windows Vista®: 32-bit only, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8; Mac: Apple® OS X El Capitan (v10.11), OS X Yosemite (v10.10), OS X Mavericks (v10.9), 1 GB available hard disk space, Internet required, USB			
Software included	For Windows OS: HP Software Installer, HP Software Uninstaller (exclude Win8+), HP PCLmS Printer Driver, HP Device Experience (DXP), HP Web Services Assist (HP Connected), Device Setup & Software, Online user manuals, HP Printer Assistant, HP Scan Driver, HP Scan Application, HP Fax Driver (4:1 bundle only), HP Fax Application (4:1 bundle only), HP Product Improvement Study; For Mac OS: Welcome Screen (directs users to http://www.hp.com or OS App Source for LaserJet Software)			
Security management	Password-protected network embedded Web server; Enable/Disable Network ports; SNMPv1 community password change			
Printer management	HP Printer Assistant (UDC); HP Device Toolbox; HP Utility (Mac)			
Dimensions and weight				
Printer dimensions (W x D x H)	Minimum 398 x 288 x 231.1 mm; Maximum: 398 x 482 x 387.9 mm;		Minimum 415.1 x 288 x 279.5 mm; Maximum: 415.1 x 511.4 x 423.7 mm;	Minimum 423.1 x 288.6 x 279.5 mm; Maximum: 423.1 x 511.4 x 423.7 mm;
Package dimensions (W x D x H)	490 x 294 x 350 mm		490 x 327 x 350 mm	
Printer weight	6.8 kg		7.6 kg	
Package weight	9.1 kg		10.2 kg	
Operating environment	Temperature: 15 to 32.5°C; Humidity: 30 to 70% RH			
Storage conditions	Temperature: -20 to 60°C; Humidity: 10 to 90% RH			
Acoustics	Acoustic power emissions: 6.5 B(A) (printing at 23 ppm); Acoustic pressure emissions: 51 dB(A)			
Power ⁷	Requirements: Input voltage: 220 to 240 VAC (+/- 10%), 50/60 Hz, 2.8 A; Consumption: 255 watts (active printing), 4.2 watts (ready), 1.0 watts (sleep), 0.7 watts (auto off/wake on USB, enabled at shipment); Typical Electricity Consumption (TEC) ⁸ : Blue Angel: 0.627 kWh/Week; Energy Star: 0.573 kWh/Week; Power supply type: Built-in power supply;			
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology			
Certifications	CISPR 22:2008/EN 55022:2010 (Class B); EN 61000-3-2:2006 +A1:2009 +A2:2009; EN 61000-3-3:2008; EN 55024:2010 ENERGY STAR® qualified Blue Angel compliant No; Please refer to the ECI document			CISPR 22:2008/EN 55022:2010 (Class B); EN 61000-3-2:2006 +A1:2009 +A2:2009; EN 61000-3-3:2008; EN 55024:2010 ENERGY STAR® qualified Blue Angel compliant Yes; Blue Angel RAL-UZ 205
What's in the box ⁹	HP LaserJet Pro MFP M130a; Introductory HP Black LaserJet Toner Cartridge (700 pages); HP LaserJet Imaging Drum (12,000 pages); Power cord; Getting started guide; Set up poster; Support flyer; Printer documentation and software on CD-ROM	HP LaserJet Pro MFP M130nw; Introductory HP Black LaserJet Toner Cartridge (700 pages); HP LaserJet Imaging Drum (12,000 pages); Power cord; USB cable; Getting started guide; Set up poster; Support flyer; Printer documentation and software on CD-ROM	HP LaserJet Pro MFP M130fn; Introductory HP Black LaserJet Toner Cartridge (700 pages); HP LaserJet Imaging Drum (12,000 pages); Power cord; Phone cord; Getting started guide; Set up poster; Support flyer; Printer documentation and software on CD-ROM	HP LaserJet Pro MFP M130fw; Introductory HP Black LaserJet Toner Cartridge (700 pages); HP LaserJet Imaging Drum (12,000 pages); Power cord; Phone cord; USB cable; Getting started guide; Set up poster; Support flyer; Printer documentation and software on CD-ROM
Warranty	One-year unit exchange 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.			

Footnotes

- ¹ App or software and HP ePrint account registration also may be required. Some features require purchase of an optional accessory. Learn more at <http://www.hp.com/go/mobileprinting>.
- ² Printing speed measured using ISO/IEC 24734 and excludes first set of test documents. Exact speed versus predecessor varies depending on the system configuration, software application, driver, and document complexity. Learn more at <http://www.hp.com/go/printerclaims>.
- ³ Measured using ISO/IEC 17629. Exact speed varies depending on the system configuration, software application, driver, and document complexity. Learn more at <http://www.hp.com/go/printerclaims>.
- ⁴ HP Auto-On/Auto-Off Technology capabilities are subject to printer and settings.
- ⁵ Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see hpconnected.com.
- ⁶ Mobile device must have iOS v7.0 or higher. Learn more at <http://www.hp.com/go/mobileprinting>.
- ⁷ Printer requires ePrint account registration. App or software may be required. Learn more at <http://www.hp.com/go/mobileprinting>.
- ⁸ Feature is supported on selected printers. Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see <http://www.hp.com/go/mobileprinting>. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®.
- ⁹ Requires Google Cloud Print™ registration and Google account. Learn more at <http://hp.com/go/mobileprinting>.
- ¹⁰ As compared with cartridge gauges for HP predecessor products.

Technical specifications disclaimers

- ¹ 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.
- ² HP recommends that the number of printed pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.
- ³ First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
- ⁴ HP recommends that the number of scanned pages per month be within the stated range for optimum device performance.
- ⁵ Based on standard ITU-T test image at standard resolution. More complicated pages or higher resolution will increase the transmission time.
- ⁶ Not supporting Windows® XP (64-bit) and Windows Vista® (64-bit); Not all "Compatible Operating Systems" are supported with INBOX software, Full solution software available only for Windows 7 and newer, Legacy Windows Operation Systems (XP, Vista, and equivalent servers) drivers only, For Windows Server 2003 32-bit and 2008 32-bit and 64-bit, 2008 R2 64-bit, 2012 64-bit, 2012 R2 64-bit only drivers (print/scan/fax) are installed, Windows RT OS for Tablets (32/64-bit) uses a simplified HP print driver built into the RT OS, Linux systems use in-OS HPLIP software
- ⁷ 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. Power consumption values typically based on measurement of 115 V device.
- ⁸ 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 Star value typically based on measurement of device.
- ⁹ Introductory HP Black LaserJet Toner Cartridge (700 pages), HP Original LaserJet Imaging Drum (12,000 pages). Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>



www.blauer-engel.de/uz205



<http://www.hp.com/uk>

The product could differ from the images shown. © Copyright 2018 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Published in EMEA 4AA6-6825, December 2018

