ET80/ET85 Rugged 2-in-1 Tablet

The dependable Windows® tablet created for the workers the world depends on

Every day, we depend on the workers that are essential to our way of life—from first responders that protect our communities to field service teams that maintain utility infrastructure to manufacturing production line workers that make the products that we rely on. These vital workers need more than just a rugged tablet. They need a tablet that is tailored for the indispensable work they perform. And the ET80/ET85 delivers. With support for the advanced wireless connectivity of WiFi™ 6E[1], 4G/5G and more, these tablets keep workers connected to the information and people they need, every minute of every shift. As workers move from the field to a vehicle to inside a facility, these tablets can instantly transform into a laptop or a full fixed or mobile workstation to best meet the needs of the moment. Value-add Zebra-only software tools take collaboration and productivity to the next level. And many feature options and accessories allow you to create the perfect tablet for every job. The ET80/ET85—mission critical mobility for mission critical workers.

Superior Ergonomics for Mission Critical Workers

Thin and Light—Redefined
These rugged 2-in-1 tablets set the bar when it comes to portability—they are thinner and lighter than major 2-in-1 competitors with the same screen size. When the tablet is placed in a vehicle dock, the low profile provides drivers with maximum visibility for improved safety, as well as easy access to information-rich screens.

Unmatched Versatility—2 Devices in 1
The ET80 and ET85 are true laptop replacements, with a level of flexibility no laptop can provide. Go from tablet to laptop and back in seconds by simply attaching and detaching the rugged keyboard. Use it as a standalone tablet for maximum mobility. Need to enter a lot of data? Just attach the keyboard with its friction hinge, allowing the screen to be placed at most any angle—instead of a limited number of pre-set angles. And with the universal dock, the tablet transforms into a desktop in the office or a mobile workstation in a police car, truck, forklift and more.

A Display That's All Business
The large 12 in. screen and its 3:2 'all business' aspect ratio provides more real estate to display more information, improving productivity and ease of use. The screen is easy to view indoors and outside, even in bright sunlight. The touchscreen works when wet and with gloves.

Built-in Protection Prevents Unauthorized Access
Keep your tablets secure while giving users easy, instant access. Every model includes the Windows Hello camera for facial recognition or add the optional fingerprint reader, enabling easy two-factor authentication.

Tailor Your Tablets for Every User With a Full Family of Accessories
Make backroom management easier with 4-slot auxiliary battery chargers. Create a mobile workstation in vehicles and forklifts or a desktop in the office with the universal docking solution that accommodates tablet and laptop modes. Add a rugged boot to boost durability. A shoulder strap and a handle can make life easier out in the field. An adapter adds an Ethernet and serial port—no tools required. And two expansion backs with an optional kickstand allow you to add an auxiliary secondary battery slot for double-shift power, plus either a rotating hand strap or a Common Access Card (CAC) reader for government-grade data security.

The Most Advanced Features and the Latest Technologies

The Most Advanced Wireless Connections
When it comes to wireless connectivity, the ET80 and ET85 have it all—all the latest wireless technologies. You get the fastest WiFi, cellular and Bluetooth® speeds with support for WiFi 6E[1], 4G/5G and Bluetooth 5.1. With support for the new Citizens Broadband Radio Service (CBRS)[2], companies can enable private LTE networks that provide cost-effective wireless connectivity in the largest facilities—indoors and outside. Public safety network certification provides first responders with a connection they can count on. Workers can always find the best path to the next location with robust optional GPS. And workers get consistently superior wireless services even in vehicles with the WiFi, cellular and GPS antenna passthroughs.

Designed to the Latest Rugged Standards
Accidents happen. That's why the ET80 and ET85 are built to deliver reliable operation despite the inevitable drops. Are your workers out in dusty areas? No problem, these tablets are dust tight. If they are dropped in the mud, just hose them off—even if the ports are open. The fanless thermal design is ideal for manufacturing clean rooms and other contaminant sensitive areas—and improves sealing. And with Class 1 Division 2 certification, you can configure the ET80 and ET85 for safe use when flammable hazardous materials are present.

World-Class Data Capture
The best-in-class 13 MP rear color camera with flash captures high resolution images to document just about anything—from vehicle damage resulting from a traffic accident to the condition of a wound to a fallen tree on a power line or a machine on the production line in need of repair. The optional integrated scanner delivers first-time every-time capture of barcodes, even if they are damaged, scratched or poorly printed. And the scanner is thoughtfully located in the bottom right corner, allowing officers to easily scan driver's licenses when the tablet is docked in the vehicle.

Superior Audio
The tablets offer dual speakers, plus four noise cancelling microphones in the front and back that strip out background noise. So whether you're on a push-to-talk or video call, dictating notes or using voice commands to perform a wide variety of actions on the tablet, you, your callers and your tablet will always hear every word.

The Ultimate Processing Power for the Ultimate User Experience
Intel's 11th generation processors provide a generational leap in application performance, boosting productivity.

Zebra-only Value Add Software Tools

Seamless Push-to-Talk Communication and Secure Text Messaging
Make your team even tighter with Workcloud Communication enterprise-class push-to-talk and text messaging features. Workers can talk to an individual or a team with the press of a button, whether they are inside your facility, in the field or in a vehicle. And secure text messaging includes visibility into which workers are available to respond, worker location and a complete log of all text messages for all workers.

Ingenious Battery Technology
The PowerPrecision+ batteries provide a wealth of information. Visibility into critical battery health metrics helps ensure that workers have battery power they can count on, every shift, every day.

Scanner Configuration and Data Integration Made Easy
Automatically detect and easily configure the scanner in your ET80 and ET85 tablets with 123Scan, an easy to use tool that allows even first time users to get your scanners up and running quickly. And the ability to format barcode data for your application makes it easy to integrate scanning into any workflow, eliminating data entry errors.

Specifications

Physical Characteristics	
Form Factor	2-in-1 rugged tablet with friction hinge rugged keyboard option (up to 120° opening angle)
Dimensions	Tablet: 12.1 in. W x 8.9 in. L x 0.6 in. H 308 mm W x 225 mm L x 16 mm H Tablet with keyboard: 12.1 in. W x 9.6 in. L x 1.1 in. H 308 mm W x 244 mm L x 29 mm H
Weight	Tablet (with standard battery): 2.8 lbs/1.3 kg Keyboard: 1.85 lbs/0.84 kg
Display	12 in. 3:2 QHD (2160 x 1440)—800 nits Sunlight readable Corning Gorilla Glass Anti-reflective (AR)/Anti-Smudge screen treatment Night-vision mode
Touchpanel	Capacitive 10-point multi-touch; Glove and Wet modes; MPP 2.0 active pen compatible
SIM Slots	ET85 configurations only: Two SIM: (1) Nano SIM (4FF) and (1) eSIM
Interface Ports and Expansion	(1) USB-C USB 3.2 Gen2, USB-PD charging, USB DisplayPort (2) USB 3.2 Gen2 Type A ports Expansion connector for available 10/100/1000 Ethernet and DB9 true serial ports WWAN, WLAN and GNSS Antenna pass through Keyboard and docking connectors Optional docking solution may be configured with: (4) USB Type A (2) HDMI Type A (3) Ethernet RJ45; power in
Notifications	Charging, camera and battery indicators
Audio	Stereo front facing speakers; (2) front facing microphones; (2) rear facing microphones; audio headset supported in USB-C and USB-A ports
Buttons	Volume up/down button; power on/off button; barcode scanner button (user definable in configurations without the barcode reader)
Keyboard	Available detachable friction hinge rugged keyboard with standard sized keys; precision multitouch touchpad with two physical click buttons; adjustable color backlighting; waterproof IP65; (6) programmable keys including emergency key
Performance Characteristics	
CPU	11th generation Intel® Core™ i7-1180G7 vPro® processor 11th generation Intel® Core™ i5-1140G7 vPro® processor 11th generation Intel® Core™ i5-1130G7 processor
Operating System	Windows® 11 Professional 64-bit
Memory	8 GB or 16 GB LPDDR4x-4266
Storage	128 GB, 256 GB or 512 GB tool-less user removable PCIe SSD
User Environment	
Operating Temp.	-4° F to 140° F/-20° C to 60° C
Storage Temp.	-22° F to 158° F/-30° C to 70° C
Humidity	5% to 95% non-condensing

Drop Specifications	MIL-STD-810H drop to plywood over concrete Standard: 4 ft./1.2 m With optional rugged boot: 5 ft./1.5 m With keyboard: 3 ft./0.9 m
Sealing	IEC 60529 Clause 13.4 enclosures; IP65 for tablet with ports open, keyboard and dock
Vibration	Operational: MIL-STD-810H 514.8 Composite Wheel; Non-Operating: MIL-STD-810H 514.8 E-1
Electromagnetic Compatibility	MIL-STD 461G; EN 55032; EN 55024
Thermal Shock	MIL-STD-810H 503.7 -4° F to 140° F/-20° C to 60° C (operating); -22° F to 158° F/-30° C to 70° C (non-operating)
Electrostatic Discharge	IEC61000-4-2; ± 15kV air discharge; ± 8 kV contact
Shock	MIL-STD-810H Method 516.8, Procedure I; 20 g operating, 40 g non-operating
Solar Radiation	MIL-STD 810H 505.7
Contamination by Fluids	MIL-STD-810H, Method 504.3
Approved Cleaning and Disinfecting Agents	Mild dish soap, 70% Isopropyl Alcohol solution, 0.5-3% Hydrogen Peroxide solution, 1:10 Diluted 5.5% Bleach (Sodium Hypochlorite) solution[3]
Hazardous Location Certification	C1D2 tablet configurations and compliant keyboards available
Certifications	EPEAT, Energy Star, EU CoC
Vehicle certifications	E-Mark Europe 12V system ECE Regulation No.10 Rev 6 (Tablet with keyboard in docking station) No external DC to DC converter required for 12 volt automobile systems
Power	
Battery	5180 mAhr, 7.7V rechargeable Li-Polymer; user replaceable (39.8 Whr) Time to full charge 2.5 hours Optional hot swappable 3400mAh, 7.6V (25.8 Whr) secondary battery (expansion back required) 45W USB-PD (type C) AC adapter sold separately
Sensors	
Ambient Light Sensor	Automatically adjusts display attributes and keyboard backlight
Magnetometer	3-axis e-compass
Motion Sensor	3-axis gyroscope; 3-axis accelerometer
Data Capture	
Scanning	SE4107 2D scanner (available option)
Rear Camera	13 MP auto-focus camera with user controllable LED flash; mechanical privacy shade
Front Camera	FHD Windows Hello auto-focus camera; mechanical privacy shade
Video	Intel Gen 12 Gfx with 4 unique display pipes and 8K Intel wireless display External display support: DP 1.2 up to 4096 x 2160 px, 60Hz; dock supports (2) HDMI 1080p displays

Markets and Applications

Government

- Routing/dispatch communications
- Personnel tracking
- Incident reporting
- Patient care reporting
- E-Citation
- Records management
- Mobile incident command
- Inventory management

Field Service

- Routing/dispatch communications
- Personnel tracking
- Emergency repairs
- Mobile work order management
- Safety inspection and compliance
- Meter reading
- Remote assistance

Manufacturing

- Plant management
- Mobile HMI
- PLC programming
- Communications
- Maintenance repair and overhaul
- Quality assurance
- Forklift operations
- Specialized (clean room, pharma and more)

Wireless Communications	
WiFi (WLAN)	WiFi 6E[1], 802.11ax R2 including the new 6 Ghz band, 2x2 MIMO; 802.11a/b/g/n/ac R2/ax R2, WPA, WPA2, WPA3, WPS, PMF, WMM, WMM-PS, WFD, WiFi Agile Multiband, WiFi Optimized Connectivity, WiFi Location, WiFi TimeSync
Cellular (WWAN)	ET85 configurations required: available 5G (support for 3 GPP Rel 15 including Cat 22 LTE, 3G, and sub 6 GHz NR) data only or Global LTE Category 12 data only
Bluetooth (WPAN)	Bluetooth 5.1 + Audio LE, Class 1
GPS	ET85 configurations required: GPS, GLONASS, BeiDou/Compass, Galileo. Dual band (L1 + L5) with aGPS (support varies by carrier)
NFC	Supports NFC peer to peer, card reader/writer and card emulation modes; P2P: ISO/IEC 18092; Reader/Writer: ISO 14443–A-B, MIFARE, FeliCa®, ISO 15693, NFC Forum Tag Types 1 to 4; Card emulation: ISO 14443–A-B-B', MIFARE, FeliCa RF

Security Features

TPM v2.0 ; NIST BIOS compliant; Windows Hello front facing camera; Windows Hello fingerprint reader (optional); insertable Common Access Card (CAC) smartcard reader (optional); contactless NFC smartcard reader; persistence technology by Absolute embedded in BIOS[4]; Kensington cable lock slots available on the tablet only or the tablet with the keyboard attached

Peripherals and Accessories

Accessories include: modular vehicle and office docking stations; 4-slot auxiliary battery charger; rugged boot; expansion back to easily add accessories (hand strap, auxiliary battery bay, kickstand, CAC card reader); Active MPP2.0 stylus; shoulder strap; handle strap; charging cables and more.

Warranty

Subject to the terms of Zebra's hardware warranty statement, the ET80/ET85 is warranted against defects in workmanship and materials for a period of three (3) years from the date of shipment. For complete warranty statement, please visit www.zebra.com/warranty

Footnotes

1. Windows 11 Pro required for Wi-Fi 6E (6 GHz band). Wi-Fi 6 available with Windows 10.
2. CBRS is only available in the US; CBRS requires 4G or 5G radio.
3. For further information on recommended cleaning agents to refer to the ET80/85 Users Guide.
4. Requires software and activation. Specifications subject to change without notice.

Mobility and DataCapture DNA

Mobility DNA™ and DataCapture DNA solutions help you get more value out of your Zebra devices by adding functionality as well as simplifying deployment and management of our mobile devices.
Features may vary by model and a Support Contract may be required. To learn what solutions are supported, please visit: www.zebra.com/mobilitydna and www.zebra.com/datacapturedna

123Scan PowerPrecision+ Workcloud Communication

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