

**Capturing data.
Integrating efficiency.
Enabling digitization.**

Handheld Computer CT50 -Ex
for Ex-Hazardous Areas

ecom

A PEPPERL+FUCHS BRAND



Your automation, our passion.

pf PEPPERL+FUCHS



Handheld Computer

CT50 -Ex

With support for either **Windows®** or **Android™** operating systems, the CT50 -Ex mobile computer targets highly mobile frontline employees in scan-intensive workflows such as on-demand delivery, field service and customer engagement who require a truly mobile office with the modern conveniences of an all-touch smartphone and the highest degree of future-proofing to speed business agility and lower total cost of ownership.

access to business applications quickly, so workers can more effectively manage a wide variety of tasks throughout the sales cycle.

With the CT50 -Ex mobile computer, network connectivity is no longer a barrier to the benefits of high-performance mobile applications.

www.ecom-ex.com

The **CT50 -Ex mobile computer** is designed to support the most advanced connected mobile user experiences, facilitating large file transfers, video streaming and remote



PROCESSOR

An industry-leading Qualcomm® Snapdragon™ 801 processor with 2.26 GHz quad-core CPU enables more robust application performance at better speeds and power efficiencies.

RUGGEDNESS

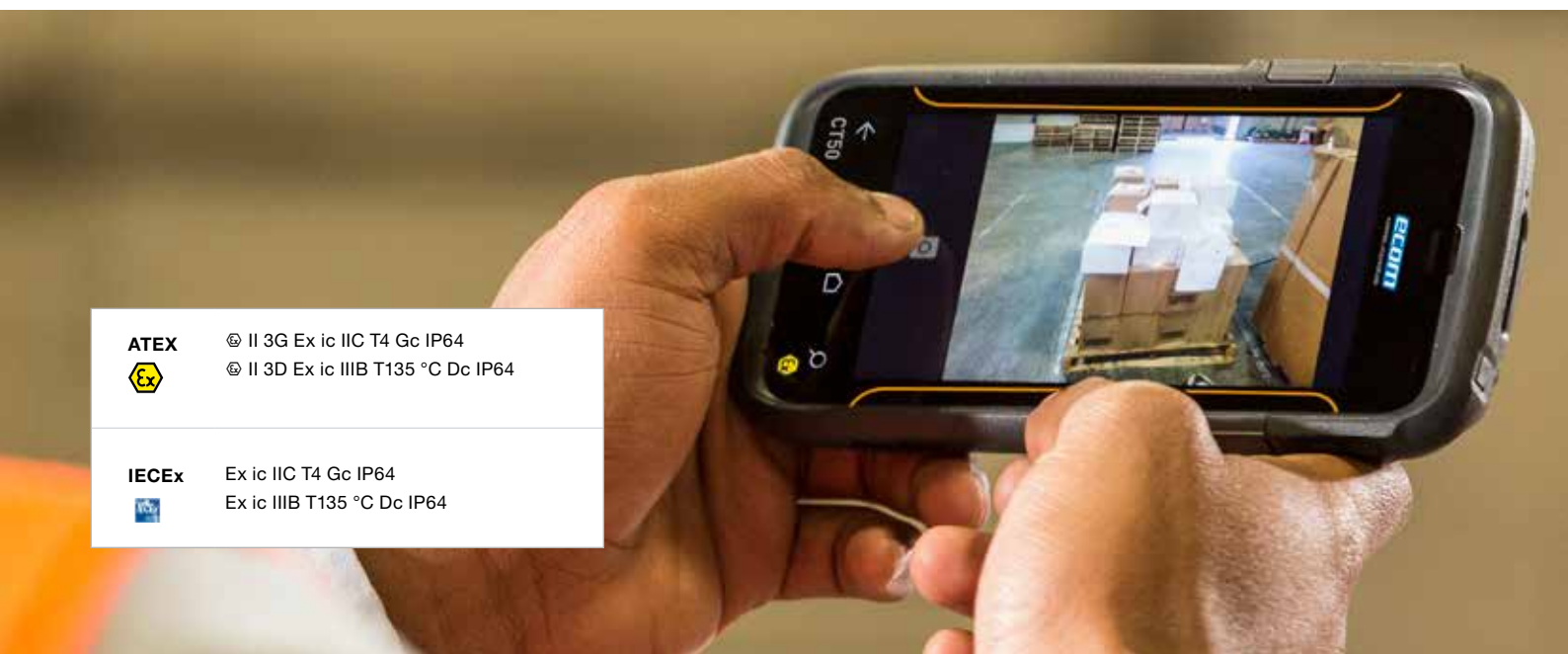
A sleek design yet rugged enough for the toughest work environments with an IP67 rating for protection from dust and water and the ability to withstand multiple 1.5 m drops to concrete and 1,000 1.0 m tumbles.



PERFORMANCE

A next-generation 2D imager delivers best-in-class data capture performance on linear and 2D barcodes. An optional scan handle provides the flexibility to switch between handheld and pistol grip operations to reduce user fatigue.

OPERATING SYSTEM

Enterprises can take advantage of the flexible support for either Windows 10 IoT Mobile Enterprise or Android 6.0 Marshmallow.



ATEX 	Ⓢ II 3G Ex ic IIC T4 Gc IP64
	Ⓢ II 3D Ex ic IIIB T135 °C Dc IP64
IECEX 	Ex ic IIC T4 Gc IP64
	Ex ic IIIB T135 °C Dc IP64

The CT50 -Ex offers **enough battery life** to last a full shift and beyond, keeping mobile workers always connected to crucial information to place orders, check stock, look up order status or scan items as they are removed for delivery. Optimized for use in field operations, the mobile computer offers a vivid 4.7 in **Corning® Gorilla® Glass** sunlight-readable display with multiple input modes to save valuable time and minimize data entry errors.

Including a nextgeneration **2D imager**, the CT50 -Ex delivers unparalleled **data capture performance on linear and 2D barcodes**.

SCOPE OF DELIVERY

- **CT50 -Ex**
- **Battery**
- **Wrist Strap**
- **Stylus Pen**
- **Documentation**

For a detailed list of accessories see the separate available accessories guide.

Data Sheet CT50 - Ex

for Zone 2/22

Data Sheet	
SYSTEM ARCHITECTURE	
Operating System	Windows® 10 IoT Mobile Enterprise or Android 6.0 Marshmallow
Processor	2.26 GHz Qualcomm® Snapdragon™ quad-core 801
Memory	RAM: 2 GB, Storage: 16 GB
Display	119.4 mm (4.7 in) in High Definition (1280 x 720) bright color LCD with backlight, outdoor viewable, optically bonded to touch panel
Touch Panel	Rugged multi-touch capacitive touch panel, optically bonded for extra durability and better sunlight viewability. Automatic detection and configuration utilizing mutual and self-capacitance modes for water rejection and use with many off-the-shelf gloves.
Keypad	On-screen keypad, dual-action side scan triggers, Volume up/down, Camera, Power button
Audio	Speaker, T3/M3 HAC-compliant, dual microphone support with noise cancellation. PTT support and Bluetooth® wireless headset support.
I/O Ports	Custom IO connector
Camera	8.0-megapixel color camera with autofocus and advanced software features for better image quality
Sensors	Ambient Light Sensor, Proximity Sensor, Accelerometer, Gyroscope, Magnetometer, Pressure Sensor
Storage Expansion	User-accessible microSD card up to 32 GB (SDHC/SDIO-compliant)
Battery	Li-Ion, 3.6V, 4040mAh with integrated battery diagnostics (AM CT50 -Ex)
Hours of Operation	12+ hours
Decode Capabilities	Honeywell N6600 Slim Imager Engine (1D/2D barcode symbologies) Honeywell SDKs for Android and Windows
Application Software	Honeywell Power Tools and Demos
Mechanical	
Dimensions (LxWxH)	160 mm x 82.5 mm x 19 mm (6.3" x 3.2" x 0.75")
Weight	approx. 342 grams (12.1 oz) with battery pack
Environmental	
Operating temperature	-20 °C to +50 °C
Storage temperature	-30 °C to 70 °C

Humidity	0 to 95% relative humidity (non-condensing)
Drop	2.4 m (8 ft) to concrete at room temp per MIL-STD 810G 1.5 m (5 ft) to concrete at -10°C to 50°C temperature range 1.2 m (4 ft) to concrete down to -20°C
Tumble	Exceeds 1,000 1.0 m (3.3 ft) tumbles per IEC 60068-2-32 specification
Environmental Sealing	Independently certified to meet IP67 standards for moisture and particle intrusion
WIRELESS CONNECTIVITY	
WWAN	LTE (4G) Quad-Band (Bands 2, 4, 5, 17) UMTS/HSPA+ (3G) Quad-Band (Bands 1, 2, 5, 8) GSM/GPRS/EDGE Quad-Band (850/900/1800/1900 MHz) WWAN Radio (EU) LTE (4G) Tri-Band (Bands 3, 7, 20) UMTS/HSPA+ (3G) Quad-Band (Bands 1, 2, 5, 8) GSM/GPRS/EDGE Quad-Band (850/900/1800/1900 MHz)
WLAN	IEEE 802.11 a/b/g/n/ac; Wi-Fi certified
WLAN Security (Windows)	OPEN, WEP, WPA/WPA2 (Personal and Enterprise)
Supported EAP	TLS, PEAP-MS-CHAP-V2, TTLS
WLAN Security (Android)	OPEN, WEP, WPA/ WPA2 (Personal and Enterprise)
Supported EAP	TLS, PEAP, TTLS, PWD, FAST, LEAP CCX Version 4 certified (Android only)
Bluetooth	Class 2 V4.0 Bluetooth
Supported Bluetooth Profiles	HFP, PBAP, A2DP, AVRCP, OPP only
NFC	Integrated Near Field Communication
VoIP	Supported
VPN	IPSec V4/L2TP, PPTP
Push to Talk (PTT)	Supported
GPS Supported Protocols	GNSS Receiver for GPS and GLONASS

Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus
- Remote I/O Systems
- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity