Aegex100M™ Intrinsically Safe Tablet
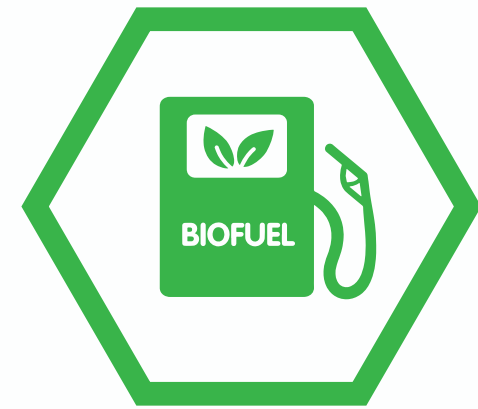
Aegex Technologies' 2nd Generation intrinsically safe tablet offers improved safety in several key measurements, and increased performance with enhanced memory and expanded storage. Operating in the most hazardous industries with explosive environments, Aegex solutions bring real-time connectivity to help organizations harness the power of data to optimize efficiency.

Oil and Gas

Chemical

BIOFUEL
Biofuel

Pharmaceutical

Paints & Specialty Coatings

Food & Beverage

The Aegex100M™ Intrinsically Safe Tablet is positioned to be the most advanced, efficient, and rugged Windows tablet, with pending Zone 0 / Division 1 certification in hazardous areas. Simple to deploy, it is the basis for an Industrial Internet of Things platform for hazardous industries, allowing operations to easily begin their digital transformation to Industry 4.0

Pending Certification for:
ATEX / IECEx Zone 0
UL913 C I, II, III Div 1

- **10.1" AHVA Display**
- **Powered by Intel Quad-Core Apollo Lake Processor**
- **8GB RAM**

Purpose-Built Intrinsically Safe

Designed from the ground up to be the lightest and fastest Windows device in its class, the Aegex100M is currently pending certification for ATEX/IECEx Zone 0 and UL 913 Class I, II, III, Division 1.

Hazardous Area Mobility

At the center of hazardous area mobility, the Aegex100M supports all of your operational needs including: Maintenance, Inspections, Workflow Management, Automation & Process Control, MES, Diagnostics & Calibration, HMI, Asset Management and many more.

Enterprise Class Solutions

Safely and securely connect your hazardous area operations and allow your teams to share mission-critical data across the entire organization; enabling greater visibility, collaboration, decision making, and performance.

SPECIFICATIONS

Submitted for the following Intrinsically Safe Certifications

In certification for Zone 1 & Zone 0 certification according to ATEX, IECEx, and UL 913 standards. Following are the planned certifications:

UL 913 8th Edition, CSA C22.2 No. 60079-0 & -11
Class I, II, III, Division 1, Groups A-G, T4
Tamb = -20° C...+50° C, IP67

IECEx
Ex ia IIC T4 Gb
Ex ia IIIC T135° C Db
Tamb = -20° C...+50° C, IP67

ATEX
II 2G Ex ia IIC T4 Gb
II 2D Ex ia IIIC T135° C Db
Tamb = -20° C...+50° C, IP67

Exterior	W x H x D: 278 x 207 x 13.8 mm (10.94 x 8.15 x 0.54 in) - without battery W x H x D: 278 x 207 x 28.3 mm (10.94 x 8.15 x 1.11 in) - at battery section Estimated final weight: 1400g (3.08 lbs)
Display	10.1" / 25.6 cm AHVA display WQXGA (2560 x 1600 px) Contrast 1000:1 (min.: 800:1) Brightness 540 NITs Viewing angle (up/down, left/right) 170° 16.7M colors
Battery	7.4V, 6500mAh, 48.1Wh Rechargeable Lithium Cobalt Oxide
Charging Time (In standby)	Wall adaptor: 0-90% in 2.5hours, to 100% in approx. 3.5 hours Docking station: 0-90% in 2.5hours, to 100% in approx. 3.5 hours
CPU & Storage	Intel® Quad-Core Apollo Lake processor Base: 1.6GHz, Burst 1.8GHz 8GB RAM, 256GB storage MicroSDXC Card Slot (up to 2 TB cards supported)
Wireless & LTE	WiFi 802.11 a/b/g/n/ac/r/k/v/w/hc/ax Bluetooth 5.2 + HS LTE: Supported Bands TBD NFC

Location	GPS / GLONASS / Galileo (Cold start <30s, Hot start < 2s)
Connections	Magetic pin connector for rapid charging with Aegex Wall Charger Docking connector supports LAN, USB 2.0, 3.0, USB-C, HDMI, SD Card, and audio jack
Software	Windows 10 IoT Enterprise AegexScan Application - Optional
Video & Audio	Main Camera (rear-facing): 8MP Auto-focus with flash Image: 3264 x 2448 px jpg, video: 1080p (Full HD 1920 x 1080) 30 fps Secondary Camera (Front-facing) Image: 1920 x 1080 px jpg, video: 1080p (FullHD 1920x1080) 30 fps 2 digital microphones (Front/Back), front facing microphone array. Stereo speakers
Sensors	Ambient light sensor (ALS), Accelerometer, Gyroscope, E-Compass, SAR proximity sensor
Security	Intel® TXE Boot Guard 2.0 FW TPM (Intel® PTT3) Intel® Trusted Execution Engine Interface (Intel® TXEI) Driver Intel AES New Instructions BitLocker
In the Box	Aegex100M™ intrinsically safe tablet Wall charger (12VDC 3.5A power supply and adaptor)