



FORTIFY

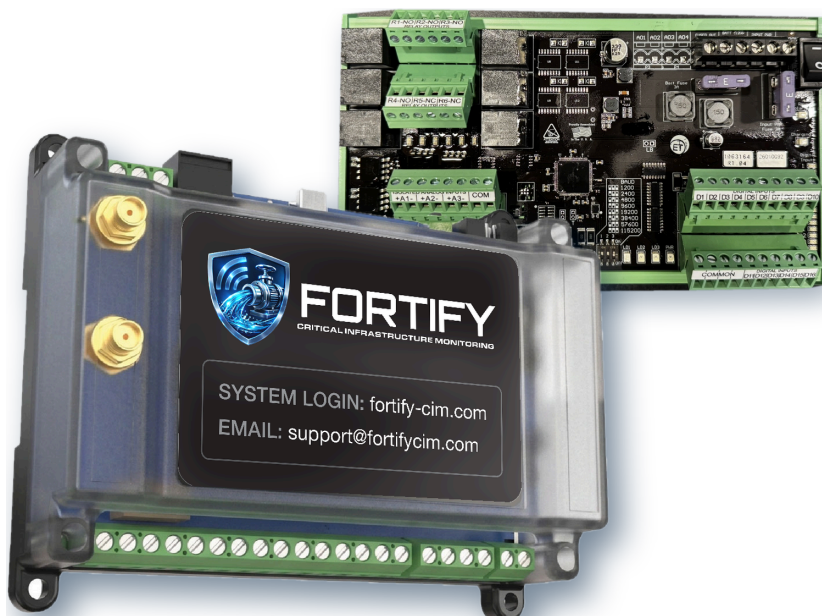
CRITICAL INFRASTRUCTURE MONITORING

 fortifycim.com

CELLULAR GATEWAY FOR MONITORING & CONTROL

WIRE IT. POWER IT. MONITOR IT.

Fortify Critical Infrastructure Monitoring (Fortify CIM) provides secure cloud-based remote monitoring for water and wastewater utilities, industrial and commercial facilities, agricultural operations, private developments, and other critical infrastructure.



INPUTS

34^{*}x

- 20 - Digital Inputs
 - Including Pulse Counters
- 14 - Analog Inputs

OUTPUTS

6^{*}x

- 6 - Digital Outputs

** When using the Fortify Full IO system*

Connect the equipment you already have.

The Fortify™ CIM cellular gateway provides plug-and-play remote monitoring and control for a variety of applications — from legacy controllers to variable frequency drives (VFD), PLCs and field instruments.



Global cellular connectivity

4G LTE with global coverage on Verizon, AT&T and T-Mobile networks. Carrier switches automatically upon carrier failure.



GPS location

Automatically pins location on the map using GPS coordinates.



Totalization

Flow

Track flow and totalize with a pulsed input.

Rainfall

Totalize rainfall with an available pulsed input.



Level measurement

Wet well, tank and basin levels reported continuously to operators.



Monitoring & control

Monitoring and control options for equipment optimization, not just alarms.



Legacy integration

Modbus RTU and Modbus TCP talk to the controllers already in the panel.

Works with what's in the panel

CONNECTS TO (MODBUS)

- Variable frequency drives
- PLCs
- Legacy controllers
- Amp meters
- Other Modbus-enabled equipment

DELIVERED BY FORTIFY™ CIM

- 10-second snapshot of analog data, uploaded at 1-minute intervals when a machine is running and 10-minute intervals when the system is idle
- GPS equipment location
- Browser-based cloud dashboard
- iOS and Android mobile apps
- Remote monitoring and control

From the field to the cloud – and back to your phone.

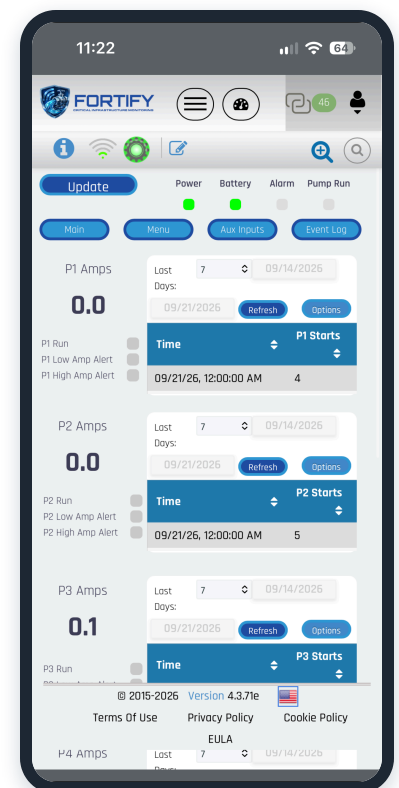
The Fortify™ gateway connects to the local cellular network, uploads its GPS location and communicates directly with the Fortify™ CIM cloud, so operators see station conditions without a site visit.



Browser dashboard · wet well level trend with pump run and alarm overlays

What operators see in Fortify™

Data point	What it can tell you
Wet well level	Real-time level, trend history and low / high level alerts
Machine starts + run hours	Daily duty per pump, allows quick identification of under performing equipment
Motor amps	Single-phase load on each pump, with low and high amp alerts
Flow + totalizer	Instantaneous flow and flow meter accumulation
Station alarms	Pump fault, high level float, power and generator fail, station entry
Power + battery	At-a-glance status, plus GPS map location and event log



Mobile app · all your information on the go

TECHNICAL DATA

Choose your Fortify™ gateway



	Fortify Core IO	Fortify Full IO	Fortify Connect
Hardware	I/O modem	I/O modem + I/O expansion module	Modbus modem
Digital inputs	10, incl. pulse counter	20, incl. pulse counters	4
Analog inputs (4–20 mA)	2	14	—
Digital (relay) outputs	1	6	—
Modbus RTU / TCP	—	—	VFDs, PLCs, legacy controllers, amp meters
Dimensions	6.5" × 4.25" × 3.0" (165 × 108 × 76 mm)	Modem 6.5" × 4.25" × 3.0" (165 × 108 × 76 mm) I/O expansion module 8.5" × 4.75" × 2.0" (216 × 121 × 51 mm)	6.5" × 4.25" × 3.0" (165 × 108 × 76 mm)
Power	12V–24V DC	24V DC	12V–24V DC
Built-in UPS	—	Yes, with single 12 VDC SLA battery	—
Communication	4G LTE with global coverage · tri-carrier (Verizon, AT&T & T-Mobile) with automatic carrier failover · GPS		
Interfaces	Modbus: TCP/IP · RS-485		
Standards	FCC · RoHS		
Operating temperature	–30 °C to 70 °C (–22 °F to 158 °F)		
User interface	Fortify™ CIM cloud via internet browser · mobile apps for iOS and Android		



LEARN MORE ABOUT FORTIFY™ CIM

fortifycim.com