

4G PIV•TWIC StationExtreme™

Features at a glance

- IP 65 rated for operating in Severe Downpours, Ice and Snow
- Lumidigm Sensor for Consistent Outdoor Authentication Capabilities
- Identify users with Wet, Greasy, and Many Cut or Damaged Fingers.
- Fake Fingerprint / Anti-Spoofing Capabilities
- Wide Temperature Range for Sub-zero Climates and the Hottest Desert. (-25 to +70 C) -13° to +158°F
- Biometric Verification with both PIV and TWIC Credentials
- Supports Standard MIFARE and DESfire Cards
- TPK Retrieval Capabilities at the Reader
- Full IP and POE Enabled (Optional Wireless LAN WiFi)
- Option to Display 2D Color Image from PIV or TWIC Cards
- PKI Enabled Authentication Options
- Advanced Authentication Options for PIV and TWIC (see specs on reverse)
- Built in Contact and Contactless Smart Card Readers.
- Powerful Administration Software
- Standalone Door Access Control (SDAC) Capabilities
- TWIC ICE Approved

Authentication Solutions for PIV and TWIC - Anytime in Any Environment

Rugged and built to operate in the most extreme outdoor conditions - designed for Ports, Military Bases and Airports. Confidently deploy a biometric device created for unmatched performance in the most undesirable conditions. The device has been designed from the ground up to meet PIV and TWIC requirements and utilizes our new innovative and powerful 4G platform.



Meet Specialized Outdoor Requirements with a Solution Purpose Built for PIV and TWIC

Why have multiple readers for different credentials when one can do it all. Works with PIV, TWIC, CAC-EP, MIFARE and DESFire credentials.

- Concerned about rain, sleet, snow or desert conditions? No problem for our IP 65 rated solution that meets the Outdoor TWIC reader requirements.
- Accommodate MARSEC and threat level security requirements with the ability to operate in several operational modes.
- Provide additional levels of security at supervised checkpoints and display the color photo image extracted from a PIV or TWIC card in real-time.

Prepare for the Demands of Today and the Future with a Scalable Platform

Unparallel deployment flexibility and the ability for the system to expand over time address today's demands and will be drivers for future requirements.

- Remove install constraints with options for single-, two- or three-factor authentication.
- Address a wide range of deployment scenarios with built in embedded processing capabilities with power in reserve for future applications.
- Future expansion requirements a concern? The device has tremendous storage capabilities for biometric templates, event logs, TPK's, CRL's and Hotlists.
- Provide Real-time information as the environment changes - enhanced messaging capabilities for real-time communication.

Reduce Install and Maintenance Costs

Save time and drive down the cost of ownership with innovative installation and maintenance capabilities designed into the device.

- Leverage the latest communication standards. (Ethernet, POE, and Wireless LAN (WiFi))
- Leverage Existing Infrastructure - Integrated with leading access control panels.



4G PIV•TWIC Station Extreme™ Product Specifications



BIOSCRYPT
ENTERPRISE ACCESS SOLUTIONS

Dimensions	Reader - Height 7.2"(181 mm) Width 10.0"(254 mm) Depth 4.3"(109mm) With Mag Reader - Height 7.2"(181 mm) Width 11.9"(254 mm) Depth 4.3"(109mm) With TEC Module - Height 8.4"(213 mm) Width 10.0"(254 mm) Depth 5.4"(137mm) With TEC and MAG - Height 8.4"(213 mm) Width 11.9"(302 mm) Depth 5.4"(137mm)
Ingress-protection rating	IP 65
NEMA Rating	NEMA 4X (Undamaged by water and formation of ice, protection of corrosion)
Outdoor Operating Temperature	With TEC Module (Thermo Electric Cooler) (-25°C to +70°C) -13°F to +158°F Without TEC Module (-25°C to +50°C) -13°F to +122°F
Communications	Networking Options: LAN, WAN, RS485, Optional Wireless LAN (802.11b and 802.11g) PC Connection: USB, RS232
External Media	USB memory
Input / Outputs	Wiegand / FIPS 201 and TWIC formats supported + up to 512 bit configurable) 3 General Purpose Inputs 3 General Purpose Outputs (Extendable to 6 outputs)
Fingerprint Sensor Options	Lumidigm Venus
Integrated Card Reader Options	Contactless, Contact and Mag-Stripe readers available
Supported Cards	PIV, TWIC, CAC-EP, MIFARE, DESFire
Transaction Log Capacity	1 Million transaction logs stored on device
TPK Storage Capacity	1 Million TPK's stored on Device
TWIC Hotlist	Ability to store locally on device
CRL (Credential Revocation List)	Ability to store locally on device
PIV Card Authentication	CHUID (unsigned CHUID) CHUID (Authenticated) CAK Authentication Biometric Authentication Biometric (Authenticated) Authentication PKI (Active card authentication for PIV) CAK + Biometric (Authenticated) PKI + Biometric (Authenticated) Capabilities
TWIC Card Authentication Capabilities	Signed CHUID Verification Unsigned CHUID Verification Active Card Authentication CHUID Verification + Biometric User Verification CHUID signing certificate + Active Card Authentication + Biometric User Authentication
TWIC Privacy Key (TPK) Retrieval Options	Read from card with Mag-Stripe or contact reader at time of transaction Ability to store up to 1 Million TPK's locally at the device Ability to retrieve TPK from 3rd party systems (integration required)
Additional Card Options	MIFARE and DESFire (Finger + Card)
Display	3.5" QVGA Color LCD
Speaker	Full Audio Support
Keypad	3x4 Backlit Keypad (Blue) / Multi Directional Navigation Keys
Voltage	12 - 24V DC
Current Draw	Reader: 3 amps @ 12 VDC / 1.5amps @ 24VDC TEC Module: 10 amps @ 12 VDC
Power Indicator	LED indicator (Blue)
Integrated Door Relay	Deadbolt, electromagnetic (EM) lock, door strike, automatic door
Mounting	Flush mount option available
Regulatory Approvals and Certifications	FCC, CE(R&TTE), RoHS, (Meets TWIC outdoor reader approvals and certification specifications http://www.tsa.gov/assets/pdf/twic_reader_card_app_spec.pdf)
TWIC Approvals	Completed TWIC ICE for readers using TWIC TPK and TWIC reference biometrics. (Can be found on DHS Initial Capability Evaluation List)
FIPS 201 / PIV Approvals (Pending)	FIPS 201 Evaluation Program Approved Products List (APL) Pending Approvals for: CHUID Reader Contactless and CHUID Reader Contact
Administration Software Options	Works with SecureAdmin™ software or SecureSDK™

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Device Models

- 4G PIV-TWIC Station Extreme (G) Integrated Contactless Smart Card Reader
- 4G PIV-TWIC Station Extreme (G, GC) Integrated Contactless and Contact Smart Card Reader
- 4G PIV-TWIC Station Extreme (G, MG) Integrated Contactless Smart Card and Mag-Stripe Reader
- 4G PIV-TWIC Station Extreme (G, GC, MG) Integrated Contactless and Contact Smart Card and Mag-Stripe Reader

Device Options

- Integrated Thermo Electric Cooler Module (TEC Module) Available on all above options (includes flush mount back-plate)
- Integrated Wireless LAN

About L-1 Identity Solutions Enterprise Access Division

With over 350,000 readers deployed in over 90 countries, the Enterprise Access Division of L-1 protects and secures identities and assets by helping customers address demanding access control and identity authentication requirements with innovative and reliable systems.

Our Advantage:

- One of the most established companies that specialize in biometric access control solutions.
- Market-tested and customer proven solutions that are interoperable, and designed to grow with you.
- Knowledgeable technical support team ready to help answer your questions and get you up and running.

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