



DIGI*TRAC Model 16 Controller

High Security Alarm Monitoring

Identiv DIGI*TRAC controllers are “standalone” access control systems that support:

- ScramblePad® and ScrambleProx® secure keypads
- MATCH™ intelligent reader interfaces
- Relay control outputs

DIGI*TRAC controllers provide high-integrity enterprise-wide access control and security management solution.

Features

- Monitors 16 Fully Supervised Alarm Inputs
- Modular: Uses Expansion Boards
- General Purpose Relay Outputs – Via Expansion Boards
- Microprocessor Based
- High Security Supervised Alarm Inputs (2% Supervision)
- Dedicated Alarm Relay Output
- Digital Keypad/Reader Channel
- Digital Transmission
 - Long Wiring Runs
 - Multi-drop Connections
 - Ethernet Interface
- Encryption Algorithm
 - High-Security Transmission
- Downloadable Firmware
 - Flash Memory
- Multiple Reader Technologies
- UL Listed: 294, 1076, Grade AA

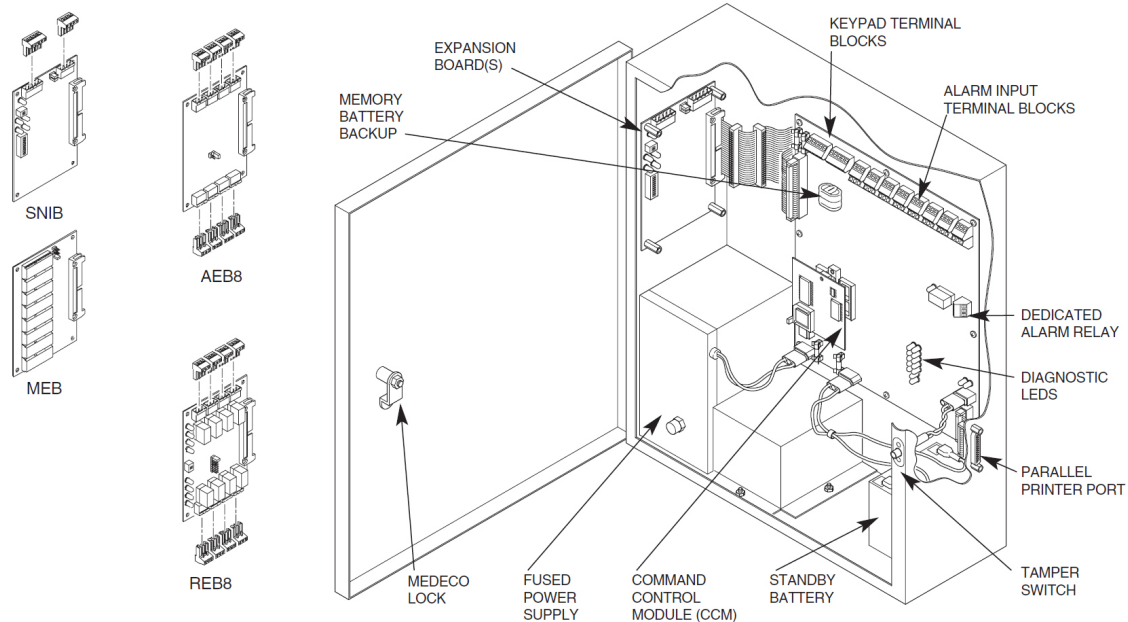
Description

All DIGI*TRAC controllers have the same firmware functionality. A range of models and expansion options provides a variety of access control, high-security alarm monitoring, relay control outputs, and programmable logic configurations to support any application. Each unit can be a complete standalone system or a distributed controller in a larger, multisite enterprise system. This modular design and “scalable” architecture allow a system to start small and grow large.

Readers may be used to initiate control actions such as mask alarm inputs, activate a group of equipment control relays, or energize specific elevator call buttons. Readers supported include ScramblePad, ScrambleProx and, via the MATCH intelligent reader interface, practically any Wiegand reader. Technologies may be combined on the same controller in any combination.

High-Security Reader Channel

The DIGI*TRAC controller supports electrically-isolated terminal blocks that provide communications and power to the ScramblePad, ScrambleProx and MATCH interfaces. The communication path allows multidrop connections for keypads or dual technology applications. User codes are digitized for transmission between an Identiv ScramblePad, ScrambleProx, or MATCH and the DIGI*TRAC controller. Digital transmission allows longer wiring runs than are normally available with conventional access control reader technologies.



High Security Alarm Monitoring

Identiv uses very stable digitally processed analog inputs with 2% line supervision for high-security alarm monitoring. A line supervision module (DTLM, MELM, or SBMS) is located at the door contact, alarm sensor, request to exit (RQE), or similar device to establish this supervision.

In lieu of “shunting”, which turns off supervision, Identiv uses “alarm masking” for full-time supervision and reporting of line status — even during hours of authorized access. Conditions reported include Alarm, Secure, RQE, Mask, Tamper Alarm, Tamper Secure, Short, Open, Noisy and Input Out-of-Spec.

Relay Control System

Relay outputs on DIGI*TRAC controllers can be used for: electric door locks and strikes, arming/disarming security systems, alarm annunciation, elevator control, HVAC control, lighting control, storage locker control, and many other equipment control applications. These relays may be activated by codes (via ScramblePad), cards (via MATCH and reader), time zones, alarms, or logic sequences linked to other relays.

When used with a ScramblePad, DIGI*TRAC controllers are ideal for after-hours tenant override systems. A history of who issued the override command is available for tenant billing or audit trails. The same ScramblePad used for access control can be used for tenant override and remote operator command functions.

Get FICAM-Compliant with SNIB3

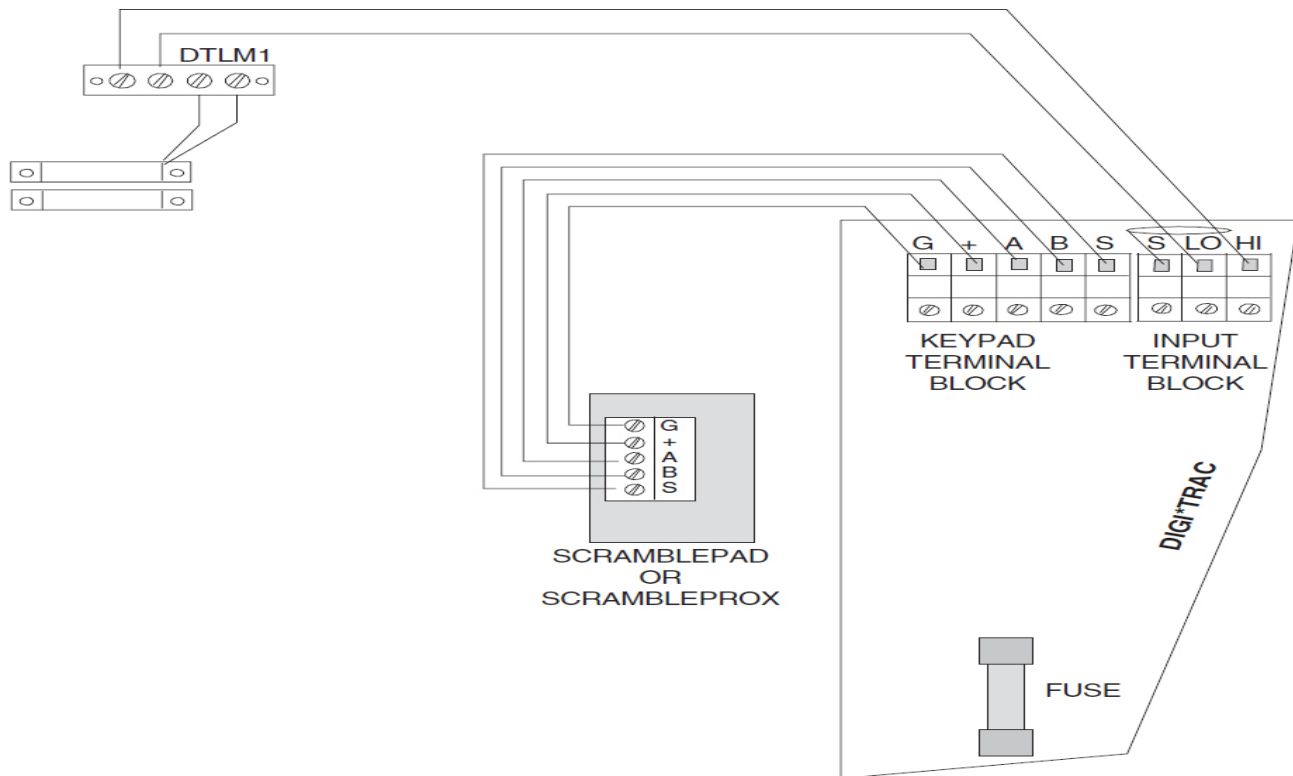
TCP/IP version 6, Gigabit Ethernet, and AES 256 bit encryption are foundational for the critical U.S. Federal Identity, Credential, and Access Management (FICAM) standard. Identiv's Secure Network Interface Board 3 (SNIB3) provides the encryption you need. And if you already have controllers from Identiv, SNIB3 is a drop-in replacement for the SNIB2 and SNIB communications boards.

Second-Generation SNIB2

The SNIB2 is a second-generation SNIB that uses a high-performance protocol: XNET2. The SNIB2 has three ports. One is a 10/100BASE-T Ethernet port. The second port provides a multi-drop RS-485 channel. A third port, RS-232, is available in the master SNIB2 for direct connection to a host PC (no modem).

Reliability by Design

DIGI*TRAC controllers are designed for “high availability” as complete systems solutions for global markets. Standby batteries for both memory and system operation are standard. The controller ships with an internal international power supply. All door relays are socketed. All Keypad/Reader terminals and power circuits are fused. Each unit is configured in a heavy duty, NEMA style enclosure, with a high-security lock and tamper alarm.



Typical Controller-to-Alarm Point Wiring Diagram

SPECIFICATIONS

Communications

- SNIB3
- SNIB2
- Parallel Printer Port: Standard
- Keypad/Reader Port: 16 device addresses
 - Address 1-8 for door relay 1-8 entry; address 9-16 for door relay 1-8 exit; any address for command and programming
 - Wiring: 750 ft (160 m) with 22 gauge, 1800 ft (550 m) with 18 gauge; two pair, stranded, twisted, overall shield

Firmware

- Command and Control Module (CCM):
 - Removable and Upgradable
 - Time Zones: 150
 - Access Zones: 128
 - Control Zones: 256
 - Holidays: Four 366 Day x 2 Years
 - Daylight Savings Time Adjustment

Memory

- Buffers: 1500 events, 1500 alarms standard
 - 20,000 events, 2,000 alarms with MEB/BE – 20,000 events, 2,000 alarms with MEB/CB (reduces users by 20%)
 - Oldest discarded rst, if full
- Users:
 - 4000 standard
 - 8,000 with MEB/CE16
 - 20,000 with MEB/CE32
 - 68,000 with MEB/CB64
 - 132,000 with MEB/CB128
- Battery Backup: 30 days for code, setups, clock and buffer

Electrical

- Keypad/Reader Power: 8 terminals
 - 1.0 Amp at 24VDC each, fused
 - 2.90 Amp at 24VDC, total
 - Powers ScramblePad, ScrambleProx and MATCH
- Primary and Standby Power:
 - – 90-130VAC, 50/60 Hz, fused
 - 180-260VAC, 50/60 Hz, fused
- Uninterruptible Power Supply
- Standby Batteries: 7 AH included
- Door Relays: 10 Amp, Form C
- Control Relays: 2 Amp, Form C (requires REB8)
- Alarm Relays: 2 Amp, Form C
- LEDs:
 - Individual Relay Status
 - Battery (OK, Low, Fail)
 - AC (OK, Fail) – System (OK, Fail)
 - Keypad/MATCH (Poll, Response)
 - SCRAMBLE*NET (Poll, Response)
 - Test Mode
 - Alarm Events in Buffer
 - Box Tamper Alarm

Physical

- Door Tamper Switch
- Medeco High Security Key Lock
- Enclosure: NEMA-type, with conduit knockouts and removable door
- Dimensions: 22 x 20 x 6.25 in (55.9 x 51 x 15.9 cm)
- Expansion Boards: 6 x 4.25 x 0.75 in (15.2 x 10.8 x 1.9 cm)
- Shipping Weight: 60 lbs (27.2 kg)
- Expansion Boards: 1 lb (0.45 kg)
- Operating Temperature Range: 32° to 140° F (0° to 60° C)
- Relative Humidity: 0 to 90%, non-condensing

Listings and Approvals

- UL 294 Access Control Systems Units
- UL 1076 Proprietary Burglar Alarm Systems, Grade AA
- CE

Ordering Information - Controller

MODEL	COMMENTS
M16N2	16 Input Controller. 4000 Users. Includes 16 Alarm Inputs (requires Line Modules), enclosure, power supply, battery, tamper switch, Medeco lock and SNIB2. Supports Expansion Boards. Provides 10/100 Ethernet or direct connect RS-232 to Host PC with Xbox globalization to downstream controllers. Provides up to 115KBps RS-485 and AES (128 bit Rijndael) encryption between "N2" controllers. Velocity Version 2.6 SP2 or later. UL listed. CE. 115VAC.
M16N3	16 Input Controller. 4000 Users. Includes 16 Alarm Inputs (requires Line Modules), enclosure, power supply, battery, tamper switch, Medeco lock and SNIB3. Provides 10/100/1000 encrypted Ethernet to Host PC and downstream controllers (Mx and DIGI*TRAC). SNIB3 uses 1 expansion slot, so 4 expansion slots available for other expansion boards.

Note: Add "-230" to model number for 230 VAC.

Ordering Information - Expansion Boards

MODEL	DESCRIPTION	COMMENTS
AEB8	Alarm Expansion Board - 8 Inputs	Adds 8 additional high security alarm inputs. Velocity supports up to 4 boards in M2, M8, Mx, MSP, M64 and up to 2 boards in M16. Each input requires appropriate Line Module. Features removable connectors. UL Listed.
REB8	Relay Expansion Board - 8 Relays	Expands CODE Memory by 128,000 (from 4000 to 132,000) with CCM 7.X on Velocity. A portion of the Code Memory may be allocated to alarm and event Buffers on Velocity only. Protected from data loss during power failures for up to 30 days by controller memory battery. UL Listed.
MEB/CB 128	Memory Expansion Board - CODE Expansion of 128,000 with Buffer Option	Expands CODE Memory by 128,000 (from 4000 to 132,000) with CCM 7.X on Velocity. A portion of the Code Memory may be allocated to alarm and event buffers on Velocity only. Protected from data loss during power failures for up to 30 days by controller memory battery. UL listed.

Note: The DIGI*TRAC M16 Controller can accommodate up to ve expansion boards. Only one MEB/CB is supported per controller. A maximum of two AEB8 expansion boards are supported in the M16 (only with CCM 7.x or later and Velocity).

Identiv, Inc. (NASDAQ: INVE) is a global provider of physical security and secure identification. Identiv's products, software, systems, and services address the markets for physical and logical access control and a wide range of RFID-enabled applications. Customers in the government, enterprise, consumer, education, healthcare, and transportation sectors rely on Identiv's access and identification solutions. Identiv's mission is to secure the connected physical world: from perimeter to desktop access, and from the world of physical things to the Internet of Everything.

Identiv has offices worldwide. Addresses and phone numbers are listed at identiv.com/contact. For more information, visit identiv.com or email sales@identiv.com.

Technical data is subject to change without notice.

Copyright © 2019 Identiv, Inc. | All rights reserved. This document is Identiv public information.

Revision/Date of Release: 2019-03-21

identiv.com