# Altronix®

T2SSK1DQ (Kit)

Access & Power Integration Solution for Lenel-S2

TROVE™

Altronix T2SSK1DQ kit consists of Trove2 enclosure, TSS2 Lenel-S2 (S2 Security Platform)/ Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 12VDC @ 10A power supply/charger, one eight PTC protected dual input/output network/managed access control module and one eight PTC protected dual input/output network/managed power distribution module. Also included is a 5-Port hardened switch board. This kit also accommodates S2-INST Installation Kit For Lenel-S2 (S2 Security Platform) S2 Network Node for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

S2 SECURITY
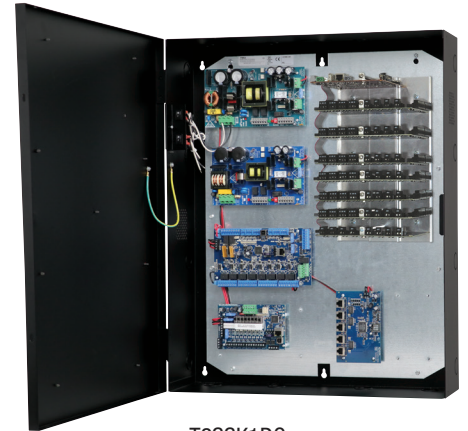
T2SSK1DQ

S2 boards are not included

Key Features

- 24VDC and 12VDC power supply/chargers
- Accommodates S2-INST Installation Kit
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts
    1.362" (1" Conduit) / 1.115" (3/4" Conduit)

- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- CE European Conformity
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

Specifications

Power Supply/Charger 1 (eFlow104NB):

Input
Voltage	120VAC, 60Hz, 4.5A max.
Input Fuse	6.3A/250V

Output
Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

Power Supply/Charger 2 (eFlow102NB):

Input
Voltage	120VAC, 60Hz, 3.5A max.
Input Fuse	5A/250V

Output
Voltage	12VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

Both Power Supplies:

Battery Charging
Capacity	12VDC/12AH (2 within enclosure)
	40AH/65AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous

Batteries are sold separately

Fire Alarm Disconnect
Supervised	Latching or non-latching
EOL	10K Resistor

Supervision
AC Failure	Form "C" contacts
Battery	Form "C" contacts

Low DC Power Shutdown
Shuts down DC output terminals if battery voltage drops below
71-73% for 12V units and 70-75% for 24V units (depending on the
power supply). Prevents deep battery discharge

Indicators (LED)
AC Input	120VAC is present
DC Output	Powered
Battery	Discharged or not connected

Network Power Distribution Module (LINQ8PDCB):

Input
Voltage	24VDC from eFlow104NB and 12VDC from eFlow102NB
Input PTCs	9A

Outputs
PTC protected auto-resettable outputs
Any of the eight (8) PTC protected power outputs are selectable
to follow power Input 1 or Input 2
Individual outputs may be set to OFF position for servicing
Output PTCs:	2.5A

Status Monitoring
Power Supply output voltage and load, Voltage and load of each output
FACP trigger and reset status, Unit temperature (Celsius)
Power Supply AC and Battery status, Battery health

Reporting:
Windows Dashboard Alert messages
E-mail notifications, Event Log tracks history

Indicators (LED)
Bat Local	Charging current status
FACP	Triggered / Released
Input	Input signal
Out1 - Out8	Output status

Network Access Power Controller (LINQ8ACMCB):

Input
Voltage	24VDC from eFlow104NB and 12VDC from eFlow102NB
Input PTCs	9A

Outputs
PTC protected auto-resettable outputs
Any of the eight (8) PTC protected power outputs are selectable
to follow power Input 1 or Input 2
Individual outputs may be set to OFF position for servicing
Output PTCs:	2.5A

Programming Features:
Eight (8) Programmable Outputs:
- Fail-safe, fail-secure or auxiliary outputs
- Input controlled or manually controlled through software
- High (over) and low (under) voltage and current monitoring by output
- Multiple outputs may be programmed to be triggered by a single input
- Battery back-up by output

Eight (8) Programmable Trigger Inputs:
- Normally open (NO), Normally colsed (NC) or Open collector sink inputs
- Wet Input (5VDC - 24VDC) with 10k resistor
- Any combination of the above

Other Programmable Trigger Inputs:
- Monitor power supply(ies) input for voltage and currect limits (high/low)
- Input and output current calibration, Programmable timer events
- Programmable user levels, Enable or disable alerts by type
- Programmable alert reporting delay

Indicators (LED)
Green AC LED:	indicates AC trouble condition
Green BAT LED:	indicates battery trouble condition
Green FACP LED:	indicates FACP disconnect is triggered
Flashing Blue Heartbeat LED:	indicates network connection
Individual OUT1 - OUT8 LEDs:	indicate outputs are triggered
Individual Voltage LEDs:	indicate 12VDC (Green) or 24VDC (Red)

5-Port Hardened Switch (NetWay5B):

Input	24VDC, current draw: 150mA
Ethernet Ports:	Five (5) 10/100/1000 Mbps data ports
	Connectivity: RJ45, auto-crossover
	Wire type: 4-pair CAT5 or better structured cable
	Distance: up to 100m
	Speed: 10/100/1000 Mbps, half/full duplex, auto negotiation

Indicators (LED)
Individual PoE On LEDs for each port
Individual IP Link status, 10/100Base-T/active LEDs for each port

T2SSK1DQ Kit:

Agency Listings
CE	European Conformity

Physical and Environmental
Dimensions (H x W x D)
Enclosure: 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)
Shipping: 32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)

Weight (approx.)
Product	56.3 lb. (25.5 kg)
Shipping	61.3 lb. (27.8 kg)

Temperature
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	− 20ºC to 70ºC (− 4ºF to 158ºF)
Relative Humidity	85% +/− 5%
BTU/Hr. (approx.):	192 BTU/Hr.

Access Controller Position Chart for the S2-INST Installation Kit:

RSB2

Altronix Power Supply

Altronix Power Supply

Altronix LINQ8ACM(CB)

Altronix LINQ8PD(CB)

Altronix NetWay5B

S2-INST Installation Kit For S2 Network Node

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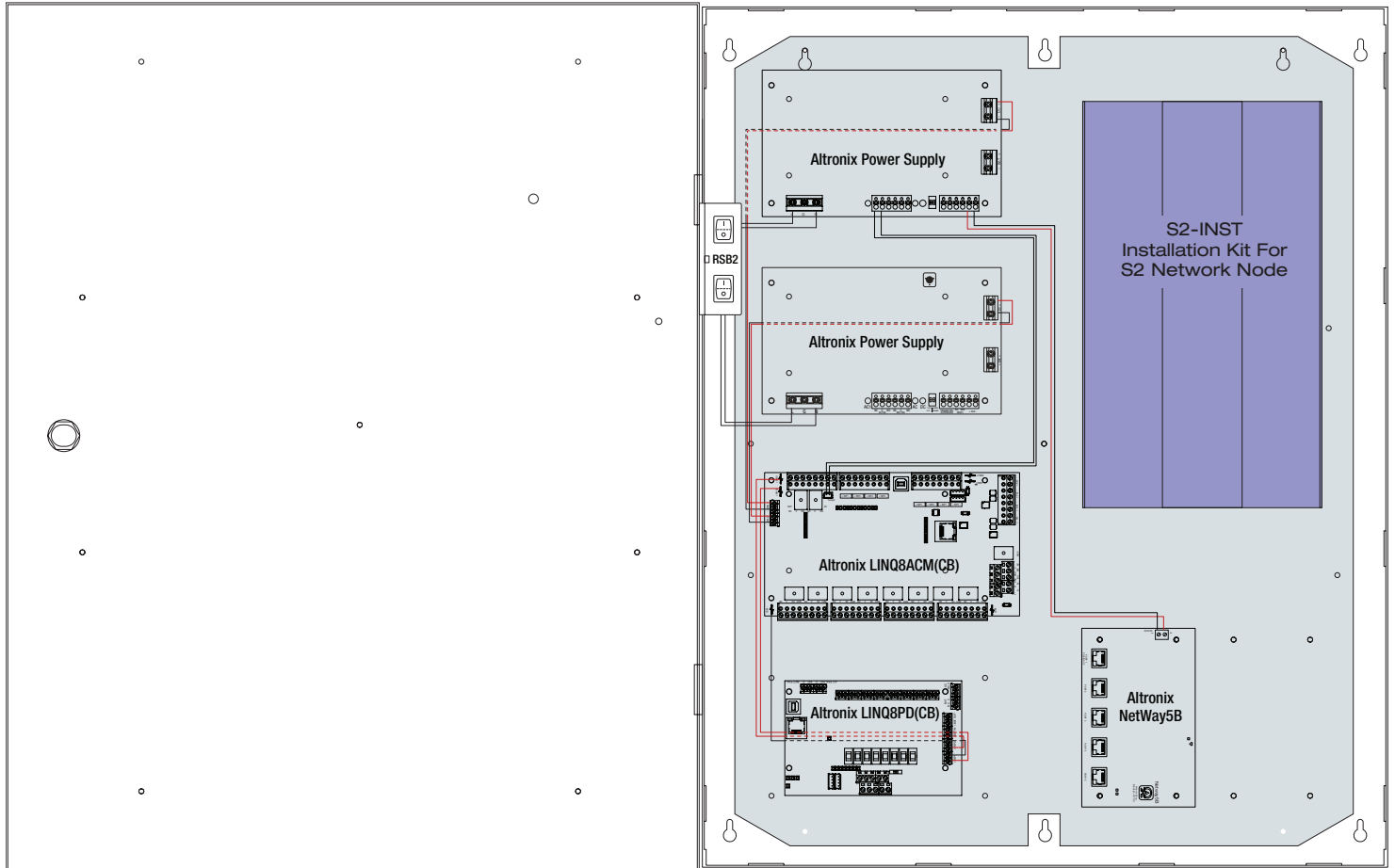
Accessories (order separately)

WM5

WM5, WM25, WM100 - Magnetic Cable Tie Mounts
Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively.
They accommodate standard zip ties or velcro straps.
These are ideal for wire management in our Trove series.

Mounting Magnet

MM4, MM8, MM12, MM24 - Magnetic Mounting Solution
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/accessories in any metal enclosure or backplane.
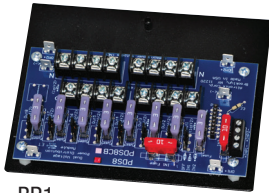
BR1

BR1 - Sub-Assembly Mounting Bracket
Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.

Trove2BWC with batteries

Trove2BWC with wires

TROVE2BWC - Battery/Wire Trough Enclosure
Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.

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TR☐VE™

Dimensions and Drawing

Dimensions (H x W x D approximate)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)