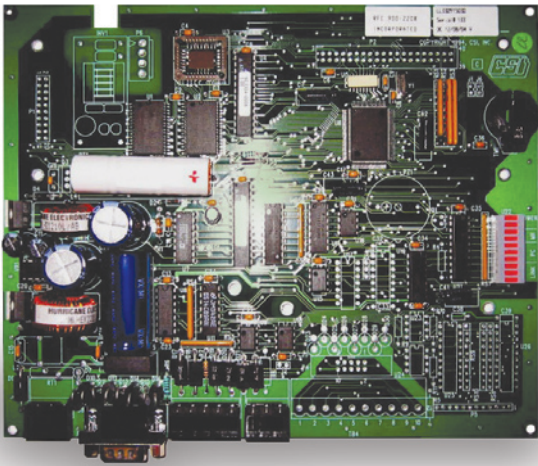


# TAC I/NET™ 7798C (SLI)

The 7798C sub-LAN interface (SLI) functions as an intelligent hub managing a network of MicroControllers and other controllers in a larger TAC I/NET™ distributed control system.



# TAC I/NET 7798C (SLI) Features



## PRODUCT AT A GLANCE

- Up to 6400 SLI's per TAC I/NET system
- Supports up to 32 SubLAN devices
- Built in controller LAN interface
- Provides local workstation connection
- Expanded memory 1Mb for extra capacity
- Software downloadable for updates
- Purpose designed for reduced installation cost

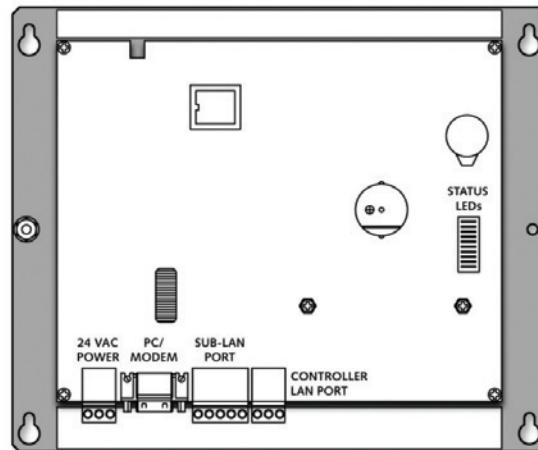
The SLI provides global functions for the MicroControllers, including: Access-initiated Control, Elevator Control, Event-initiated Control, Trending, Runtime Accumulation, Automatic Time Scheduling, Calculations, Anti-passback, and periodic synchronization of the local clocks in the MicroControllers.

The 7798C supports up to 32 MicroControllers.

Configure the 7798C's internal settings (i.e., the controller LAN address, Tap emulation, baud rate, etc.), By connecting it to a PC via the serial port. You can then perform the necessary configuration tasks using a utility that emulates a hand-held console (HHC).

Recommended power supply:  
XFMR6 (Refer to transformers datasheet)

Installation guide: TCON311



# TAC I/NET 7798C (SLI)

## Specifications

### 7798C

#### Communication Ports

##### Controller LAN Port

Baud Rate	9,600 or 19,200 baud
Protocol	Proprietary
Transport	RS 485 SDLC token passing
Connector	2-part screw terminal

##### Sub-LAN port

Baud Rate	9,600
Protocol	Proprietary
Transport	RS 485 asynchronous, polling (open or closed loop)

##### Connector

2-part screw terminal

##### Direct Serial Port

Baud Rate	1,200 to 9,600 baud
Protocol	Proprietary
Transport	RS 232 - PC or asynchronous modem at 9,600 baud

#### Network Wiring Requirements

Length	5,000 feet/1524m per segment
Extended Length	25,000 feet/7620m with repeaters
Connector	2-part screw terminal
Cable Type	Belden 9184 or equivalent twisted pair shielded
Cable Size	<22AWG
Impedance	85 to 150 Ohm
Capacitance	>30pF/ft between conductors and >55pF/ft conductor to shield

#### Hardware Details

Processor	Zilog Z181
EPROM	32KB
Static RAM	1024KB
Non-volatile Memory	512Bytes
Battery support	Onboard NiMH, rechargeable, 300 hours
Firmware	Downloaded to battery backed RAM
Real time clock	Battery backed

#### Physical Details

##### Backplate Dimensions

6.50" L x 8.00" W x 1.75" D  
(16.51 x 20.32 x 4.44 cm)

##### PCB Dimensions

8.00" L x 9.63" W x 0.25" D  
(20.32 x 24.46 x 0.64 cm)

##### Weight

1lb (0.454 Kg)

##### Operating Temperature

32°F to 104°F (0°C to 40°C)

##### Operating Humidity

10-90% RH, Non condensing

##### Power Requirements

24Vac, ±10%, 50/60Hz, 10VA (max)

# TAC I/NET 7798C (SLI) Specifications (continued)



## 7798C

### Controller Capacities

#### General

Channels	1 Sub-LAN per 7798
Number of Station Addresses	1 per 7798
Number of controllers per Sub-LAN	32
<b>Controller Types</b>	
Security Control Unit SCU1284	16 per 7798
Digital Input Unit	32 per 7798
Digital Input/Output Unit	32 per 7798
Micro Controller Units	32 per 7798

### LED Details

Power	Indicates power is on
(blank)	not used
TXA1	Transmit to sub-LAN
RXA1	Receive from sub LAN
TXA0	Transmit to PC
RXA0	Receive from PC
DCD0	Modem carrier detect
TXD	Transmit to controller LAN
RXD	Receive from controller LAN
DCD	not used

### Listings

UL916	Energy management equipment
(pending)	
CE certified	

### Part Numbers

#### Standard

7798C	Controller with 1024K RAM
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### Supporting Software

Recommended	
Power Supply	XFMR6, (110v) XFMR7, (220v)
Cable for PC-emulated	
HHC	CBL082

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On October 1st, 2009, TAC became the Buildings Business of its parent company Schneider Electric. This document reflects the visual identity of Schneider Electric, however there remains references to TAC as a corporate brand in the body copy. As each document is updated, the body copy will be changed to reflect appropriate corporate brand changes.