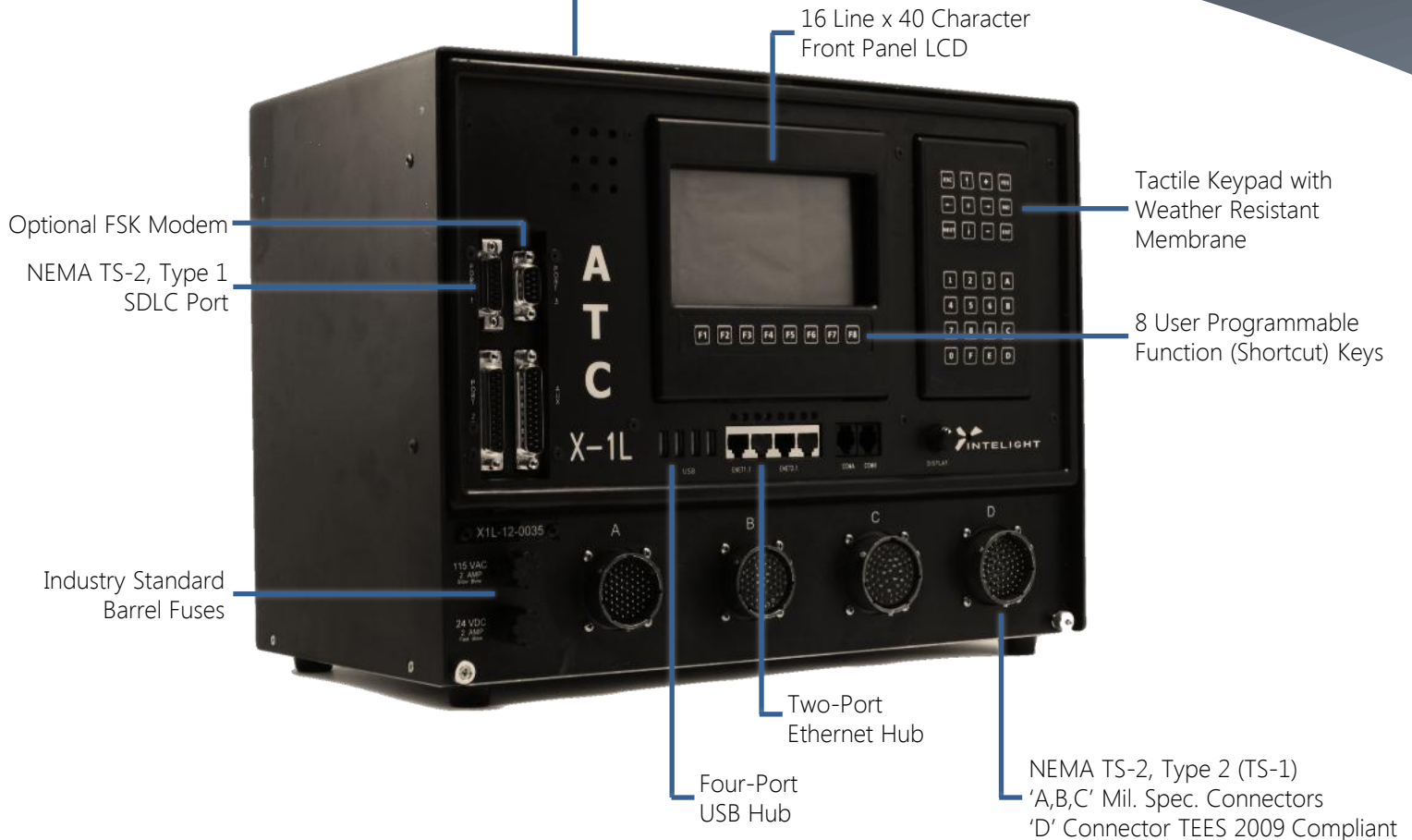


## NEMA TS-2 Type 1 & 2 Traffic Signal Controller

Advanced Transportation Controller (ATC)

Linux Operating System with  
64 MB Ram | 64 MB Flash Memory and  
Power PC 885 133 MHz (200 MIPS) Processor



16 Line x 40 Character  
Front Panel LCD

Tactile Keypad with  
Weather Resistant  
Membrane

8 User Programmable  
Function (Shortcut) Keys

Optional FSK Modem

NEMA TS-2, Type 1  
SDLC Port

Industry Standard  
Barrel Fuses

Two-Port  
Ethernet Hub

Four-Port  
USB Hub

NEMA TS-2, Type 2 (TS-1)  
'A,B,C' Mil. Spec. Connectors  
'D' Connector TEES 2009 Compliant

## OVERVIEW

The X-1L Controller is part of Intelight's award winning "X-Series" NEMA Controller Line. The X-1L meets and exceeds the current ATC, NEMA, and NTCIP standards providing an advanced, cost competitive solution to legacy signal controllers. Equipped with Intelight's award winning MaxTime traffic signal controller software, this modern traffic signal controller provides equivalent functionality to legacy controllers with the increased usability and added benefits such as an on-board web-server, database backup via USB flash drives, and advanced MOE analysis. Contact Intelight or one of our regional distributors today to see how the enhanced usability and features of the Intelight X-1L Controller can improve your agencies traffic operations.

## HIGHLIGHTS

- Compliant with NEMA TS-2 and ATC 5.2b Standards
- Linux Operating System
  - Faster Processor and More Memory
  - Allows for 3<sup>rd</sup> Party Software Development
- TS-1 and/or TS-2 Operation
- Supports Serial and/or Ethernet Communications
- MaxTime Local Controller Software
  - 40 Phases, 16 Rings, 32 Overlaps, 16 Preempts
  - Monitor and configure timings wirelessly from a laptop, tablet, or smart-phone without database editor or 3<sup>rd</sup> party software
  - Built-In Master/Closed Loop Functionality
  - Peer to Peer communications
  - Locally Adaptive Transit Prioritor

## MODERN PLATFORM

- Compliant with Current NEMA TS-2 (with NTCIP) and ATC 5.2b Standards
- Linux Operating System
  - ATC Std. API for third party application support
  - Linux actively supported by global community
  - Open architecture operating system allows for 3<sup>rd</sup> party software development
  - Linux "Tool Chain" and ATC Standard API provided with controller purchase
- Faster processing and more controller memory
  - Power PC 885 133 MHz (200 MIPS) Processor
  - (64MB Flash / 64MB DRAM)
- 4-Port USB Hub
- 7 Configurable Serial Ports (5 are SDLC Capable)



X-1L USB and Ethernet HUBS

Phase	1	2	3	4	5	6	7	8	>
Walk	0	0	0	0	0	0	0	0	0
PedClr	0	0	0	0	0	0	0	0	0
DontWlk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MinGrn	5	5	5	5	5	5	5	5	5
Passage	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0	
Max 1	45	60	35	60	45	60	35	60	
Max 2	0	0	0	0	0	0	0	0	
Max 3	1	1	1	1	1	1	1	1	
YelChg	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
RedClr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
RedRvrt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DynMax	0	0	0	0	0	0	0	0	
MaxStep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DlyGrn	0	0	0	0	0	0	0	0	
DlyPed	v0	0	0	0	0	0	0	0	

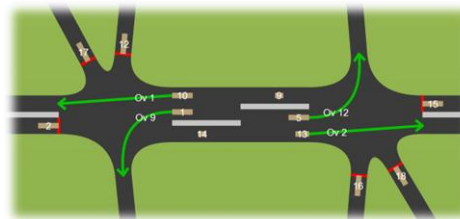
MaxTime Front Panel User Interface

## ROBUST HARDWARE

- Built with current, industry standard technology
- Compliant with NEMA Environmental Requirements
  - Temp Range: -40°C to +80°C
  - Size: 143/4 W x 73/4 D x 101/2 H (mm/in)
  - Two-port 10/100 Mbit Ethernet ports
  - Tactile keypads with weather resistant membrane
  - Variable Power Supply (95-250 VAC 50/60 Hz auto sensing)

## FEATURES & USABILITY

- On Board Web-Server - Monitor and manage traffic signal without the need for additional software



Sample MaxTime Status Display as Viewed from Tablet or Smart-Phone (No App Required)

- Large Front Panel LCD Screen
- 8 Programmable "Special Function Keys" provide shortcuts to software menus
- USB Support
  - Install traffic signal software from flash drive
  - Transfer timing databases via flash drive
  - Configure and monitor timings via Wi-Fi adapter from computer, tablet, or smart phone without additional software or database editor
- Dynamic Serial Ports
  - Communicate with multiple serial devices
  - Accommodates device integration such as audible push buttons, vehicle detection devices, or pedestrian countdown heads

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