INTELIGHT
THE INTELLIGENT TRAFFIC SOLUTION

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

Four-Port Ethernet Switch with Optional Power over Ethernet

16 Line x 40 Character Front Panel LCD

Tactile Keypad with Weather Resistant Membrane

NEMA TS-2, Type 1 SDLC Port

8 User Programmable Function (Shortcut) Keys

Four-Port Ethernet Switch

ATC / 2070 Standard Module Expansion Bay

Four-Port USB Hub

OVERVIEW

The X-1 Controller is part of Intelight's award winning "X-Series" NEMA Controller Line. The X-1 meets and exceeds the current ATC, NEMA, and NTCIP standards providing agencies with a robust, industry leading, true open architecture hardware platform. The X-1 can help agencies improve operations and reduce the amount of equipment in the signal cabinet. Use the X-1 to run multiple applications on the traffic signal controller, all while maintaining traffic signal operations. Contact Intelight today to see how the X-1 Controller can help update your signal operations system to 21st century technology.

HIGHLIGHTS

- Compliant with NEMA TS-2 and ATC 5.2b Standards
- Linux Operating System
- Two Independent 10/100 Mbit Network Cards
- TS-1 and/or TS-2 Operation
- Supports Serial and/or Ethernet Communications
- 2070 Hardware Expansion Bay for Device Integration
- 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 3rd party software
  - Built-In Master/Closed Loop Functionality
  - Peer to Peer communications
  - Locally Adaptive Transit Prioritor

MODERN PLATFORM

- Supported Standard Specifications:
  - ATC v5.2b and Proposed 6.0
  - API (FIO & FP Interface)
  - NEMA TS2 with NTCIP (Type 1 & Type 2)
  - NTCIP – 1202 ASC, 1201, and Base Stds.
- Open Architecture
  - Linux Operating System
- Faster processing and more controller memory
  - Power PC 885 133 MHz (200 MIPS) Processor
  - (64MB Flash / 64MB DRAM)
- Two Independent Network Cards
  - Four 10/100 Mbit Ethernet Ports
  - Four 10/100 Mbit Ethernet Ports w/POE**
- Four-Port USB Hub
- Seven Config. Serial Ports (5 are SDLC Capable)
- Two ATC/2070 Comm./Modem Slots
  - 2070-6A/B, 2070-7A/B Modules
 - 2070-7T w/GPS Time Clock Module

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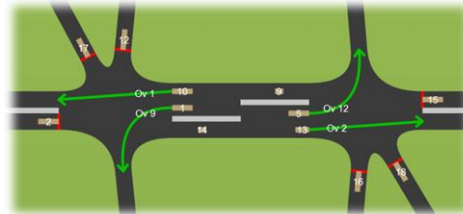
Sample MaxTime Status Display as Viewed from Front Panel, Tablet or Smart-Phone (No App Required)

- 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
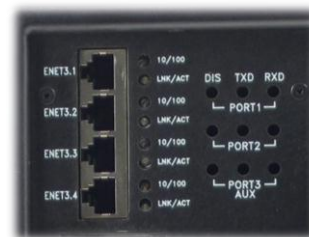
X-1 Ethernet Switch and Serial/SDLC Activity LEDs

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