

## Data Sheet: Telent—Optima Outstation



## Optima Outstation

The Telent Optima Outstation adds UTC and/or MOVA8 control to any traffic signal controller as well as a wealth of additional functionality such as bus priority and remote I/O. Compatible with all UTC instations (using UG405 UTMC2), it also allows non-Telent controllers to be added to Telent's Optima Hub.

### Overview

The Optima Outstation has been developed to provide bolt-on Urban Traffic Control (UTC) and four streams of MOVA 8 control to existing traffic signal controllers. In addition, it allows controllers supplied by any manufacturer to be added to Telent's Optima Hub. The Optima Outstation also provides a platform for several other applications:

- UG405 UTMC2
- MOVA 8
- Remote Monitoring
- Bus Priority
- Remote I/O
- Sensor Interface
- Count data collection

### Remote Monitoring

Remotely monitor traffic signal controllers supplied by 3rd party manufacturers via the Optima Hub. Provides remote access to handset port and controller web page (if available).

### UTC Control

Freestanding UTC control to any supported controller (UG405 UTMC2).

### MOVA 8

Four streams of MOVA 8 with remote access to MOVA web page

### Remote I/O

I/O bits can be sent between Optima Outstations (and hence controllers) and Optima controllers. Event messages can also be sent via the Telent Hub servers.

## Bus Priority

Receive RTIG compliant bus priority messages, create rules (e.g. based on schedule deviation) and set bits within the connected controller.

## Sensor Interfacing

Interface directly with compatible sensors (e.g. Vivacity cameras) allowing bits to be set on the connected controller based on rules e.g. set a bit if there are > X people, buses, cars, taxis in a zone.

## Count Data Collection

Designate any input or output for data collection.

## Special Conditioning

Provides AND, OR, NOT and Bracket operators and can be used in conjunction with all other facilities such as MOVA, UD and Call Cancel.

Example use case, drop MOVA CRB when receiving UTC force bits

Particularly useful for older sites that don't have separate UTC and MOVA interfaces.

## Specification

- Battery back-up with last gasp power fail message
- 4g/ADSL communications
- Re-use any existing IP comms
- Configured via in-built web page
- Available with 0 to 3 I/O boards
- One I/O board provides 48 inputs and 24 outputs

## Part Numbers

- 200-1501-230 Outstation with no I/O
- 200-1501-240 Outstation with one I/O board
- 200-1501-220 I/O board expansion kit
- 900-1501-130 Input cable (16 inputs)
- 900-1501-140 Output cable (8 outputs)

## Summary:

The telent Optima Outstation has been developed to provide a wealth of additional functionality to any traffic signal controller in a very cost effective way. It can be used to add UTC control and/or the very latest version of MOVA (MOVA 8) to a controller and also to add it to the Optima Hub if required.

## Benefits:

- Works with any controller
- Last gasp message on power fail
- Remote handset and web page access
- Access to MOVA8 web interface (where available)
- Extend life of controllers by adding latest control algorithms

