UC-372-T Traffic Light Controller Communicators

The UC-372-T series of UltraLink™ communicators is specifically designed for road management applications, where there is a need to transport signalling from traffic light controllers over broadband networks. With up to 3 serial ports, the UC-372-T can connect to existing legacy traffic light controller equipment (such as SCATS controllers) as well as provide routing functions for IP devices. The UC-372-T features built-in ADSL and wireless (GPRS or 3G) connectivity to ensure maximum reliability for mission-critical infrastructure.

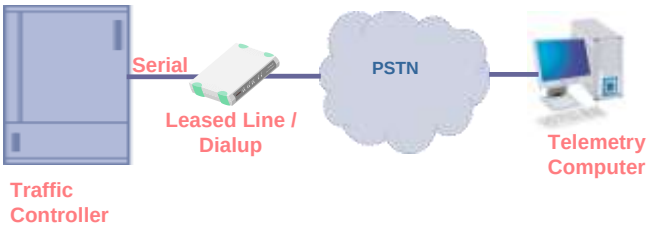
Applications

- Routing serial data from traffic light controllers over broadband networks
- High availability – routing traffic controllers over ADSL, PSTN IP, GPRS or 3G networks
- Connection of IP cameras and other IP devices (-E version)

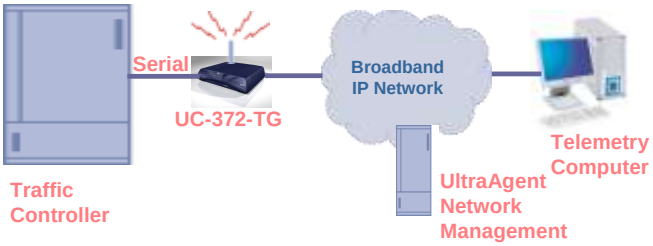
Compatible With Installed Equipment

Leave existing traffic controller equipment in place.

A typical (eg SCATS) traffic controller connects via serial to a dialup or leased-line modem:



UltraLink™ Telemetry Commnicators implement dedicated serial, VF, pin and other interfaces in order to connect directly to the customer equipment. This means there is no need to replace or modify the existing telemetry equipment. Just add the UltraLink™ and start running the telemetry network over broadband.



Managed Multi-Paths Communications

UltraLink™ Telemetry Communicators support transport over fully integrated wireline interfaces (ADSL or PSTN dialup) and/or wireless interfaces (GPRS or 3G). Deploy with wireline (ADSL/PSTN) or wireless (GPRS/3G) only depending on the required cost and reliability. Deploy both wireline and wireless where maximum network availability is critical.

Further, the communications paths are fully managed by the service provider's UltraAgent network server, ensuring rapid fault detection and restoration.

Advanced Zero-Touch Activation

All site configuration data can be pre-configured and maintained off-site, with cofiguration information being automatically downloaded on unit installation or replacement.

- Simplifies network configuration management and control
- Dramatically speeds up installation and fault recovery

All-in-one Box

No need to bolt together a solution consisting of serial-to-ethernet adaptor + ADSL modem + GPRS modem + custom controller to glue it all together. UltraLink™ Telemetry Communicators are highly integrated and provide all these features in a single, convenient, managed box.

UltraLink Telemetry

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Specification Sheet

Note: interfaces may be covered by different model numbers. Not all interfaces provided in every model.

ADSL (WAN) Interface

- ADSL/ADSL2/ADSL2+ compliant to
  - ANSI T1.413, Issue 2
  - ITU G.992.1 (G.dmt)
  - ITU G.992.2 (G.Lite)
- Central ADSL splitter compliant to S.002 and ESTI TR 101 728

PSTN Dialup (P Model)

- PSTN 56k dialup modem
- Can operate as backup (eg with ADSL) or primary (eg with wireless) path

GPRS Backup (G Model)

- Backup GPRS carries telemetry payload on failure of ADSL path
- Continuous receive power monitoring and reporting

3G Backup (3G Model)

- Backup 3G carries telemetry payload on failure of ADSL path
- Continuous receive power monitoring and reporting

Router / Firewall Functions

- Router modem functions with built-in 5 port 10/100BaseT switch (-E models)
- RFC1483 multiprotocol encapsulation over ATM (LLC-SNAP and VCMUX supported)
- PAP, CHAP, MSCHAP authentication
- PPP terminated for GPRS (-G models)
- Least cost routing selects wireline over wireless interface by default
- Stateful packet inspection firewall
- Optional NAT / PAT / IP Forwarding configurable
- DHCP Server
- Ethernet routing can be disabled from factory (non-E models)

Telemetry Interfaces

- RS-232 serial port with choice of:
  - Virtual Terminal
  - Peer-to-peer virtual terminal
  - SCATS protocol
- Up to three individually configurable serial ports (-E model)
- VF 300bps modem port (-E models)
- 8 General Purpose Sensor/Alarm Inputs (-E models)
- 2 General Purpose Remotely Controlled Relay Outputs (-E models)

Management Features

- Browser based management from LAN side
- Network management over wireline and/or wireless interfaces from UltraAgent server (hosted by service provider)
- Communications, power and interface failures raise alarms in management system
- Remote software download
- Remote testing, polling, status and configuration
- Zero-touch activation allows preconfiguration in server and automatic download to site at installation, avoiding need to perform complex configuration on-site.

Enclosure Options

- Slimline plastic enclosure with mounting brackets
- Optional secure wall mounted enclosure according to Australian Standard AS2201.5-1992

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Extended Temperature Range

- -40°C to 70°C operation

Power Supply Options

- Power from 18-24VDC (-E models)
- Power from 240VAC (non-E models)
- Supercap brown-out protection >5s (-T model)

Further Enquiries

UHS Systems
Ph +61 2 9663 2299
Fx +61 2 9663 2288

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