UltraLink Telemetry Communicators

UltraLink™ Telemetry Commnicators enable the transport of telemetry traffic over IP networks. With an extensive range of physical interfaces, powering and network transport options, UltraLink Telemetry Communicators offer an unparalleled level of functionality and reliability for telemetry users seeking to move their transport infrastructure to IP without replacing their existing telemetry infrastructure.

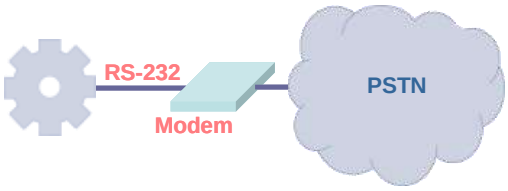
Applications

UltraLink™ Telemetry Commnicators are designed for applications where there is a need to transport legacy equipment over IP WAN networks. Typical examples include:

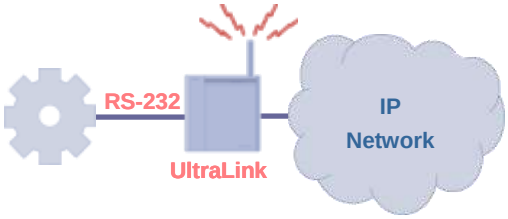
- RTUs in water management, farming, mining and other SCADA applications
- EFTPOS terminals and ATMs
- Security alarm panel communications
- Traffic light network management

Compatible With Installed Equipment

A typical telemetry network consists of Remote Telemetry Units or other devices with low speed interfaces connected to leased-lines or the PSTN:



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.



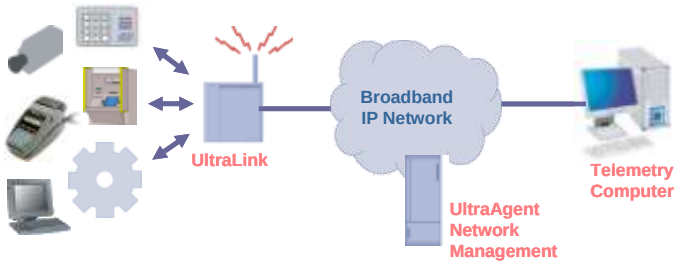
The range of customer equipment physical includes:

- RS-232 (Virtual Terminal, PPP Relay, SLIP/CSLIP, SCATS)
- RS-422
- RS-485
- 8 GPIPs
- 2 GPOPs
- VF 300bps modem
- VF alarm panel dial-capture
- Ethernet

Managed Dual-Paths Communications

UltraLink™ Telemetry Communicators support transport over fully integrated ADSL and / or GPRS paths. Deploy with ADSL or GPRS only depending on the required cost and reliability. Deploy both ADSL and GPRS 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.



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.

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

GPRS Backup (G Model)

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

Router / Firewall Functions

- 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
- Up to four 10/100BaseT Ethernet interfaces
- Stateful packet inspection firewall
- Optional NAT / PAT / IP Forwarding configurable
- DHCP Server

Telemetry Interfaces

- Up to three RS-232 serial ports (-S model) with choice of:
  - Virtual Terminal
  - Peer-to-peer virtual terminal
  - PPP Relay
  - SLIP/CSLIP
  - XOT (X.25 over TCPIP)
- RS-232 serial port supporting SCATS protocol (-T model)
- VF 300bps modem port (-S, -A models)
- RS-422 / RS-485 port (-A model)
- VF Dialler Alarm Panel
- 8 General Purpose Sensor/Alarm Inputs
- 2 General Purpose Remotely Controlled Relay Outputs

Management Features

- Browser based management from LAN side
- Network management over ADSL and/or GPRS 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 for applications not requiring battery backup (-S, -T, -A models)
- Optional secure wall mounted enclosure according to Australian Standard AS2201.5-1992
- Box tamper detection and reporting
- GSM antenna mounting supported

Extended Temperature Range

- -40^{o}C to 70^{o}C operation

Power Supply Options

- Power from 16VAC, 18-24VDC or 10-14VDC
- Optional security industry standard 240V/16VAC plugpack

- Optional >8 hour battery back-up (AS.2201.5-1992) with advanced battery management system including:
  - Rapid, temperature compensated charging as per AS.2201.5-1992
  - Periodic and remote controlled testing
  - Battery disconnect with battery low alarm
- Supercap brown-out protection >5s (-T model)

Optional Advanced Video Surveillance

- Support for up to 8 standard security industry coax surveillance cameras via external video capture devices (UltraCapture2, UltraCapture4, UltraCapture8)
- Users can select camera and view video frames on-site or remotely via secure UltraVideo server using standard web browser or Java™-enabled mobile
- Event-based video recording – twenty 60 second video clips stored (±30 Seconds around the trigger event)
- Pan-Tilt-Zoom control

Further Enquiries

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