

Chameleon[®]

Intelligent and adaptable communication outstation.



A universal Outstation for signal control; capable of providing the interface to junction and pedestrian controllers under a variety of operational modes including UTC, remote monitoring, MOVA or a mixture of different control strategies.

Urban Traffic Control

Chameleon has been designed and developed by Peek as a versatile Outstation Unit for UTMC systems (OTU/OMU). The Chameleon contains a powerful processor enabling local control, detection and data processing to be carried out at the roadside, whilst also offering a flexible approach to interfaces, operating over fixed line, wireless or hybrid communications infrastructures.

UTMC

The Chameleon makes use of the published UTMC MIBs to control Outstation equipment. To achieve this, a 'MIB function' to a standard UTC bit mapping file is used for all control and reply bits. This file is held as part of the Chameleon configuration at the Instation and is downloaded to the Chameleon on power-up.

Remote Monitoring

The Chameleon will act as a Remote Monitoring Outstation in either UTC mode when connected to our TMS or stand alone when connected to our WISNet remote monitoring instation. Dial up, GSM or IP communications supported, providing alarm and monitoring capability. Optional implementation of MOVA 6 also available.

Chameleon is designed as a cost effective solution for traffic Outstation applications, using the latest technologies to provide a robust and versatile platform for a variety of applications.

Key Features

- UTMC/UG405 Compliant OTU supporting SCOOT
- Traditional OTU – supports the MCE0361 protocol for backwards compatibility
- Real time clock – synchronised from the Instation or other NTP server
- Remote access to the controller's command line interface from an Instation; including the ability to view the controller's fault log
- Remote Monitoring Outstation (under UTC and RMS)
- MOVA 6 (4 Stream)
- Open protocol communications
- Monitors site conditions and calls an Instation if configurable thresholds are exceeded
- Download and upload new plans, timetables and a schedule
- Supports up to 96 inputs and 96 outputs
- Multi-site, configurable count facility
- Mode swapping by instation command or timetable

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Communications Interfaces

Designed specifically with the needs of the modern network based communications systems in mind. With the ability to operate over fixed line, wireless or hybrid telecoms infrastructures, it ensures the robust data integrity requirements of a complex UTC control system are not compromised. The Chameleon enables flexible and cost effective communications options:

IP through RS232 and IP through Ethernet communications facilitating:

- PSTN
- GSM
- Wireless Ethernet
- Fibre
- ISDN
- xDSL (which includes both ADSL and SDSL)
- 3G

Environmental Credentials

Elecon Codes	Watts	Annual kW:Hr	CO2 kg pa
79 10 016 000 100	16	140	75

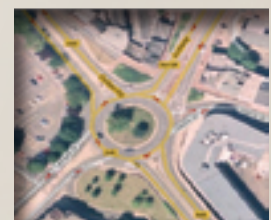
Hardware Description

The Chameleon hardware consists of the following core components:

- An uninterruptible power supply (enabling notification of power fail)
- A CPU card running embedded Linux
- Up to three Input/Output cards each supporting up to 32 inputs and 32 outputs
- A 3U high, 19" rack, which can also be used to house other units
- Optional Lamp Monitoring Unit (LMU) facilitates extensive lamp monitoring capabilities

Chameleon® MOVA

- MOVA 6 for remote actuated control of up to 4 streams per Outstation
- Web-browser interface for efficient monitoring and commissioning
- Real time updating
- Multiple Stream information displayed simultaneously
- Comprehensive configuration downloaded from the WISNet® Instation or Peek TMS
- Engineer's Terminal connection provided
- Mode Fallback Facility enables the use of a single Outstation for MOVA and UTC operation



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Peek is a leading supplier of intelligent transport solutions. For more than 30 years, the firm has been providing advanced traffic control products and systems, management and maintenance services for both the urban and highways markets. Peek's established and proven portfolio includes traffic management systems incorporating SCOOT, highway congestion management and enforcement systems, vehicle detection systems, exterior lighting, as well as supervisory and communications systems. Peek is ISO 9001:2008 and ISO 14001:2004 certified.

With headquarters in Basingstoke, Hampshire, Peek employs more than 500 staff throughout the UK. Peek is part of the Traffic and Infra division of Imtech NV, a global technology services provider based in the Netherlands.

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