



## UCH1000 INTELLIGENCE MODULE

### Features

- Robust processing and storage capability
- Event Logging and Real-Time Analysis
- Dual communication network capability
- Supports cellular, satellite, RF and wired networks
- Secure TCP/IP communication technology
- Seamless integration with existing systems and remote equipment
- Meets NERC/FERC security standards

### Benefits

- Automate legacy equipment
- Improved system reliability minimizes outages

### Applications

- Secure SCADA for distribution automation
- Remote Data Retrieval and Remote Diagnostics
- Electric, Gas, Water, Wastewater and Oil

## UCH1000 INTELLIGENCE MODULE

*The Natis UCH Intelligence Module combines powerful application processing and secure communications for automating remote devices.*

The Natis UCH Intelligence Module enables remote monitoring, diagnostics, configuration and SCADA for your remote devices.

### Powerful Applications

The UCH Intelligence Module enables programmable logic for Event Logging and Data Analysis, Remote configuration, Remote SCADA operations and time based device profile management. The powerful processing capabilities enable high volume data sampling for extremely accurate real-time analysis, the ability to spot trends and automatically reconfigure the network. The robust storage capabilities enable capture of granular data around events to pinpoint the cause of failures.

### Flexible and Extensible

The UCH provides secure cellular, satellite, RF or wired connectivity to your RTU enabled or other remote equipment. Its unique dual communication network capabilities enables fully redundant communication paths to ensure high availability. The interchangeable communications modules, supporting a wide variety of TCP/IP communications technologies, allows you to choose the most cost effective and reliable communication interface for each site.

### Simple Configuration

Configuration is web based, entirely menu-driven and very simple to use. Status LED indicators are provided for power, communications in and out, and wireless connectivity. Mounting flanges and a modest form factor means trouble-free installation in most existing equipment chassis within a matter of minutes.

### Compatible and Reliable

The UCH is compatible with virtually any serial or Ethernet remote device and most wired or wireless communications networks. The UCH features standard male and female serial equipment interfaces for convenient connection to remote devices. Power can be supplied from a wide range of DC voltages to accommodate battery operation in the event of AC failure.

***The most cost-effective, powerful and reliable remote automation solutions.***



## UCH1000 INTELLIGENCE MODULE

### UCH1000 Specifications

#### GENERAL

- **Physical:** 8"L x 5.5"W x 2"D
- **Power Supply:** 9VDC – 30VDC  
Reverse polarity and surge protection
- **Power Supply Connection:** 2 pin polarized locking plug
- **Current:** 450mA typical, 750mA max (@12VDC supply)
- **Serial Connection:** RS232 or RS485, DB9M or DB9F
- **Operating Temperature:** -20° to +70° C for main processor (communications cards vary)
- **Humidity:** 10% - 90% (non-condensing)

#### *Security*

- RSA Key Exchange
- 3-DES encryption
- AES encryption

#### *Communications*

##### Wireless

- WiFi (802.11)
- CDMA 1X/EV-DO Verizon, others
- GSM/GPRS: Cingular, T-Mobile, others
- Satellite: GlobalStar, others
- **Antenna Connection:** N-Female 50 Ohm  
Optional multi-phase protection available  
Optional coax RF transient protector

##### Wired

- Ethernet
- Fiber
- DSL
- Cable-modem
- Power-line carrier
- Dial-up

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