



### Description

The Willowglen 7000 Series Remote Terminal Unit (RTU) is designed with flexibility, scalability and the capability to withstand rugged environment. Modular, high density I/O cards are installed directly into rack-mounted chassis thereby allowing very large point counts. Each I/O card has a small micro-controller to handle sampling, filtering and processing. All protection circuitry is located onboard thereby eliminating the need for external protection cards. High reliability is featured with both "Redundant" Processor capability and the ability to "Hot-Swap" any card while the system is running.

The 7000 series can be installed with multiple processor modules that feature video-audio capture and compression hardware. The RTU has the ability to transmit both point and video-audio data over the same communication network. This will allow real-time video images at remote sites to be viewed at the control centre. The video images can also be stored continuously on a hard drive at the RTU for historical viewing. The RTU can be equipped with RS485 ports that can be used for controlling the pan, tilt and zoom controller of the camera if required. In addition, audio data can be transmitted to the RTU for playback over an appropriate speaker system.

The 7000 Series is very useful for mission critical applications where the integrated video-audio monitoring feature can be used for alarm verification, to provide visual site information, to perform personnel verification and to enhance site security. Typical applications are in power distribution management, water sewerage and treatment plant, building security surveillance, oil & gas satellite production platform monitoring, oil & gas pipeline management, water and sewerage pumping stations, tank farm management and transportation & traffic monitoring.

### Features

- 64-bit High Performance RISC processor running at 250Mhz.
- Redundant processor cards supported.
- H.263 full motion or single frame video compression technique.
- Optional DSP accelerator plug-in card for high frame rate applications.
- Integrated data and video-audio transmissions.
- Easy communication to host computer and other intelligent devices using either industry standard MODBUS, IEC 870-5-101 or other protocols.
- Built-in 10/100 Mbps Ethernet interface for high-speed communication.
- Hot swapping of cards is supported.
- IEC 61131-3 Programming Interface.
- POSIX compliant operating system with Real-time Extensions.
- Extensive network protocols and interface capabilities including TCP/IP, DHCP, and PPP.
- Surge protection exceeding IEC 61000-4-5 and ANSI/IEEE SWC C37.90-1989 built into the I/O modules.
- Extensive self-diagnostic functions, monitoring temperature, power input, battery status and a watchdog-timer.

### Advantages

- Remote video monitoring through phone line or high-speed wide area networks which reduces wiring costs as telemetry data and video share common transmission medium.
- Ability to combine up to four 19-inch chassis for handling of thousands of I/O points.
- External protection devices and isolators for I/O points are not required.
- Local archiving of compressed video images but retrievable for remote viewing.
- Geographic Slot Addressing insures cards are plugged into correct slot.
- Powerful and reliable open-system architecture that offers new levels of performance, response time and reliability.

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