VHF Split-port Half Duplex Data Radio

Crescendo is a series of digital data radio modems designed for use in large scale wide area point-to-point and point-to-multipoint industrial systems.

The radio provides a high-speed reliable link over narrow band channels for telemetry and SCADA radio applications requiring information or control of one or multiple remote stations.

Features
- Switching Bandwidth 148 MHz – 174 MHz
- 5 Watt transmit power (software selectable)
- 19,200 bps (or 9600 bps) air data rate
- Multi-mode LED front panel display for diagnostics, including RSSI meter
- Forward Error Correction (FEC) for high link integrity in RF-noisy environments
- Windows-based GUI support for configuration and remote diagnostics
- Protocol addressing and routing support, DNP-3, Modbus and IEC 870 compatibility
- Store-and-forward repeaters for large-scale networks and coverage expansion

Applications
The Crescendo series is suited for applications in Underground Mining and Tunnel application where reliable underground data transfer is critical.

The data radio can be used in small or large scale telemetry systems, with almost any PLC, RTU, HMI or DCS vendor for monitoring and control of critical assets.

Telemetry applications include, pump station and tank control, irrigation, fan and pressure control, personnel tagging, heavy equipment diagnostics and environmental monitoring.

The radios are also used in complex GPS systems for fleet tracking and management, and high precision correctional systems for machine control and automation.
Specifications

Switching Bandwidth
The user can select any 6.25kHz raster frequencies with the easy-to-use inbuilt menu or Windows configuration software.

Data Reliability
User selectable Automatic Repeat Request (ARQ) offers a high level of data reliability. The immediate re-transmission of data ensures that the user will not encounter end-to-end errors or data loss even in hostile environments.

Diagnostics at a Glance
The front panel LEDs display diagnostic information indication such as Receive Signal Strength (RSSI), transmit power, radio temperature and RS232 port status.

Data Mode Options
With data and packet-driven modes available, the Crescendo supports point-to-point, connection based and broadcast modes of communication.

Easy Network Management
The user is able to view diagnostics and change the settings of remote radios within a network from a single point.

Data Integrity
Over the air data is encapsulated with Forward Error Correction, data interleaving and Cyclic Redundancy Checksums (CRC) for high level data protection.

Easy Network Configuration
The Cruise Control software allows the user to configure, save and upload radio configuration settings. This allows for numerous radios to be configured more efficiently.

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Specifications subject to change without notice V180212