

POWERFUL. VERSATILE. RELIABLE.



Enterprise

RDL-3000 Series Solutions
More flexible than fiber

Datasheet

Business Access Platform

The Enterprise subscriber Ethernet-based solution is purpose-built with the performance and scalability to meet the needs of service providers of all sizes.

The Enterprise subscriber is your smart alternative when considering fiber, but need to deploy rapidly or in areas where no fiber exists. With superior physical security, simple setup and connection, rock-solid reliability, and scalable performance options, the Enterprise provides flexibility not available with fiber.

Providing the industry's highest throughput and lowest end-to-end latency, the Enterprise subscriber offers wire-like delivery of delay-sensitive services including toll-quality voice traffic, voice-over-Internet Protocol (VoIP), video streaming and prioritized data traffic.

AT A GLANCE

Carrier grade application defined radio for business access

Superior reliability with the best MTBF in the industry

Complete provisioning management using Redline ClearView NMS

High subscriber data-rates with very low end-to-end latency

Symmetrical data services

Flexible Quality of Service profiles

Scalable using license key options

Collocates in areas served with other TDD systems

Effective multipath and interference mitigation for non line-of-sight operation

Features & Benefits

The Enterprise subscriber radio platform is highly optimized based on Redline's vast experience in the service provider market. The advanced Quality of Service (QoS) profiles provide fine control of Service Level Agreement (SLA) parameters, enabling rapid provisioning of tiered differentiated high-margin service offerings. All QoS profiles can be changed on-the-fly without affecting other running services. The Redline ClearView NMS system enables comprehensive tracking of active customer SLAs to help you to realize positive ROI and accelerate expansion.

The Enterprise's light compact enclosure with integrated MIMO antenna and standard POE interface is simple and economical to install, and the weatherproof case endures the full range of weather and temperature challenges. The Enterprise subscriber can be deployed in non line-of-sight conditions and the synchronized operation supports collocation with other TDD-based systems. Secure features include subscriber authentication and data encryption over the air.

High reliability, superior performance, and ease of installation combine to make the Enterprise subscriber your best choice to deliver reliable uninterrupted service to your customer's critical business systems.

Product Complements

Redline's ClearView NMS network management application provides full element and provisioning management and software upgrades.

The Enterprise subscriber is fully over-the-air compatible with RDL-3000 and Elte-GT base stations and can be deployed in mixed-use scenarios with AN-80i and RDL-3000 series subscribers.

The RDL-3000 series is supplemented by full line of carrier grade peripherals including antennas, cables and power sources.

SERVICES & SUPPORT

Redline Professional Services are designed especially to assist customers to identify and address the complex tasks of designing, deploying and operating wireless networking projects. Available services include cell planning, managing deployment activities, maintenance, and training.

Redline is widely recognized as having one of best support programs in the wireless industry — delivering responsive customer and solution support everywhere Redline's products are deployed.

SOFTWARE KEY OPTIONS

☐ MetroLINK

ABOUT REDLINE COMMUNICATIONS

Redline Communications (www.rdlcom.com) is a leading provider of specialized broadband wireless systems used to cost-effectively deploy distributed applications and services. Redline systems are used by local and state governments to quickly and easily deploy or extend their public safety networks; by oil and gas companies to connect their digital oil fields; by service providers and enterprises to bring dedicated Internet access to business users; and by the military to rapidly deploy secure networks. For more than 10 years, Redline has been delivering powerful, versatile and reliable wireless solutions through certified partners in the Americas, the Middle East, and Africa.

TECHNICAL SPECIFICATIONS

System Capability	LOS, optical-LOS, and non-LOS
Wireless Transmission	OFDM (orthogonal frequency-division multiplexing) MIMO 2x2
RF Band	4.940-5.925 GHz TDD ¹ 3.300-3.800 GHz TDD ¹
Channel Size	3.5, 7, 14 MHz ^{1,2} / 5, 10, 20 MHz ¹ (software selectable)
Data Rate	Up to 120 Mbps UBR ² Up to 100 Mbps Ethernet rate ²
Processing Speed	220,000 PPS optimized for VOIP & Video
Maximum Tx Power	+25 dBm / 0.3W (region specific)
PoE Cable	Up to 91 m (300 ft)
Range	35 km (22 mi); typical 10 km (6 mi)
Antenna	Integrated MIMO antenna or RF connectors for external antenna system
Network Attributes	Transparent bridge, automatic link distance ranging, DHCP pass-through, 802.1Q VLAN
Modulation MAC	BPSK to 256 ² QAM TDMA, Dynamic ARQ (per-link), Dynamic adaptive modulation (per-link), Dynamic and fixed TDD (per link)
QoS	802.1p/Q, CIR, PIR support Multiple service flows per radio terminal Dynamic Spectrum Access & Management
Over the Air Encryption	AES-128
Network Connection	10/100/1000 ² Base-T Ethernet (RJ-45)
Node Authentication	X.509 certificates
Management	ClearView NMS, HTTP (Web) interface, SNMP v2 / v3, Telnet, HTTPS (SSL), SSH
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Humidity	100% humidity, condensing
Enclosure	IP56
Power Consumption	Standard IEEE 802.3at
Compliance²	Safety: IEC, EN, and UL/CSA 60950 EMC: EN 301 489-1, EN 301 489-17 ATEX: Zone 1 & 2 ² CSA: Class 1 Div 2 ² 5.8 GHz: IC RSS-210, FCC Part 15, ETSI EN 302 502 5.4 GHz: IC RSS-210, FCC Part 15, ETSI EN 301 893 4.9 GHz: IC RSS-111, FCC Part 90 3.3-3.8 GHz: ETSI EN 302 326-2 ² 3.65 GHz: IC RSS-192/197, FCC Part 15/90 ²
Dimensions/ Weight	20 cm x 20 cm x 6.35 cm (8 in x 8 in x 2.5 in) 2 Kg (4.5 lbs)

¹ Availability restricted by regional regulations ² Pending

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