



Network Optimization Equipment

PROSE

Who We Are

Rosenberger Hochfrequenztechnik GmbH & Co. was founded in Germany in 1958 and ranks among the leading manufacturers of high-speed interconnect solutions worldwide. With its long tradition of excellence and innovation, Rosenberger has excelled and earned an outstanding reputation all over the world.

In early 2022 the Rosenberger Group announced the restructure of its antenna and coverage solution product portfolio with a new brand entity PROSE. The strategic focus of PROSE will be on the development of base station antennas, microwave antennas, indoor and outdoor coverage solutions, Open RAN sub-systems, data center, cabling system, IoT solutions, Automotive and related services.

As an independent entity, PROSE, with its lean, agile, and decentralized organizational structure, will be better placed to serve global customers and manage growth by bringing new technologies and solutions, aligned with the changing needs of customers in the telecom industry. The PROSE product portfolio will uphold Rosenberger's tradition of the highest innovation and quality while delivering improved technology expertise and enhanced local customer support around the globe.

PROSE consists of more than 3500 people, with 40+ subsidiaries sales/service offices, 4 factories, and 7 R&D centers covering mainly North America, Europe, the Middle East, Africa, and Asia. It will continue to serve more than 100 operators/service providers worldwide including a wide set of customized solutions for 5G deployments.

PROSE is an ISO 9001 quality system and ISO 14001 environmental system certified company. Equipped with advanced machinery, automatic assembly, and testing centers supported by a large group of more than 400 R&D engineers, state-of-the-art production assembly lines, and stringent product and quality control.

PROSE's reliability and competitiveness are the cornerstones of this sustainable growth, which have resulted in long-term partnerships with most of the leading companies in their respective industries. PROSE will continue to provide excellent product solutions and services for its customers around the world.



A: Pune, India
B: New Jersey, USA
C: Donauwörth, Germany
D: Suzhou, China

Mission

- Customer always comes first
- Drive innovation together with and for our customers
- Maintain a secure, humane and happy environment for our employees
- Develop our employees by investing in their education
- Take social responsibility
- Protect our environment with ecologically friendly products, production and processes

Core Value

- Value Innovation
- Customer Focus
- Sustainable Growth
- Social Responsibility

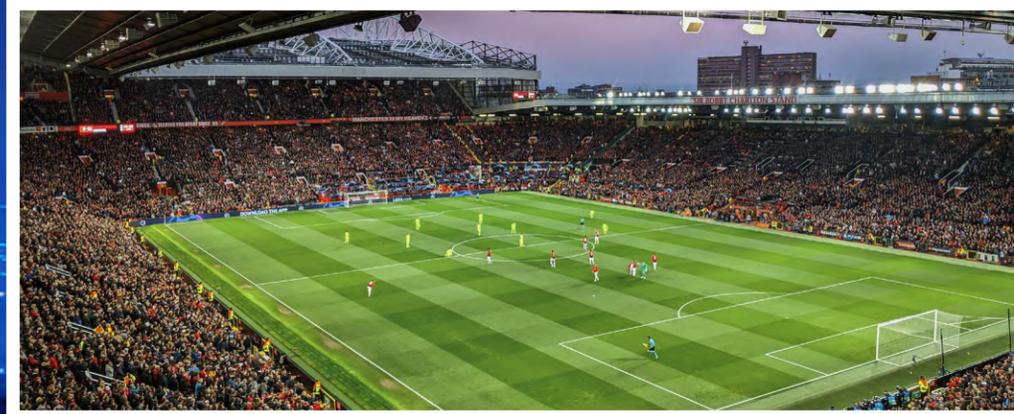


Products & Services

Network Systems	Combiner Unit Master Unit Extended Unit Low Power Remote Unit (LPRU) High Power Remote Unit (HPRU)-Cabinet 4G High Power Remote Unit (HPRU)-Cabinet 5G High Power Remote Unit (HPRU)-Blade 4G High Power Remote Unit (HPRU)-Blade 5G Medium Power Remote Unit (MPRU) Passive DAS Components
BTS Antennas	Single-MultiBand Antennas Multibeam Antennas Beamforming Antennas Small Cell Antennas High Efficiency BSA (PROTREM) 5G Massive MIMO Antennas Camouflage Products
Microwave Products	Class 3 Series Class 4 Series E-Band Series Dual-Band Series Microwave Components
O-RAN Radios	ORAN Radio Unit (ORU) Digital Control Unit (DCU) Small Cell
Archer Site Accessories	RF Coaxial Products Power Products Fiber Products Hybrid Cable Solution Installation Material
Digital World Products	Automatic Infrastructure Management System Building Cabling System Data Center Cabling System Edge Computing Data Center Modular Data Center MDC Cloud Management Platform
Filter Solutions	Interference Mitigation Filters Embedded Filters Site Combiners

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EPIC ACTIVE DAS SOLUTION

OUTLINE

With the burgeoning demand for ubiquitous wireless coverage, in-building DAS are, and will continue to be, an essential infrastructure of the radio network. DAS is a "Distributed Antenna System" for "Coverage and Capacity".

PROSE's EPIC DAS platform is a versatile, modular, and multi-technology platform designed to offer flexible and reliable wireless coverage and capacity for indoor and outdoor applications.

EPIC DAS solutions cater to multi-band, multi-operator applications, extending coverage, adding capacity, minimizing space requirements, and significantly reducing cost, with a more global approach as we have different bands for different countries. There is also an enhanced solution offering to service providers and enterprise customers.

EPIC DAS solutions support 2G, 3G, 4G, 5G (SISO and MIMO) and beyond for the global wireless community.

- EPIC High Power Remote Unit (EPIC-HPRU)
- EPIC Low Power Remote Unit (EPIC-LPRU)
- EPIC Medium Power Remote Unit (EPIC-MPRU)
- Tetra Fiber Optical Repeater

Active All-In-One in-Building DAS Solution



Superior user experience

Flexible network combinations (SISO/MIMO) to ensure uniform, high quality service.



Multiple-band and wideband

Maximum of penta-band in one unit to support the needs of most operators, with support for cascaded expansions.



WiFi option

It also supports Ethernet backbone for WiFi off-loading and internet surfing.



Future-ready

Designed to support LTE-Advanced and IOT features, and even 5G via new expansion units.



PROSE NMS system

A one-stop, intelligent management, configuration and monitoring system by PROSE NMS.



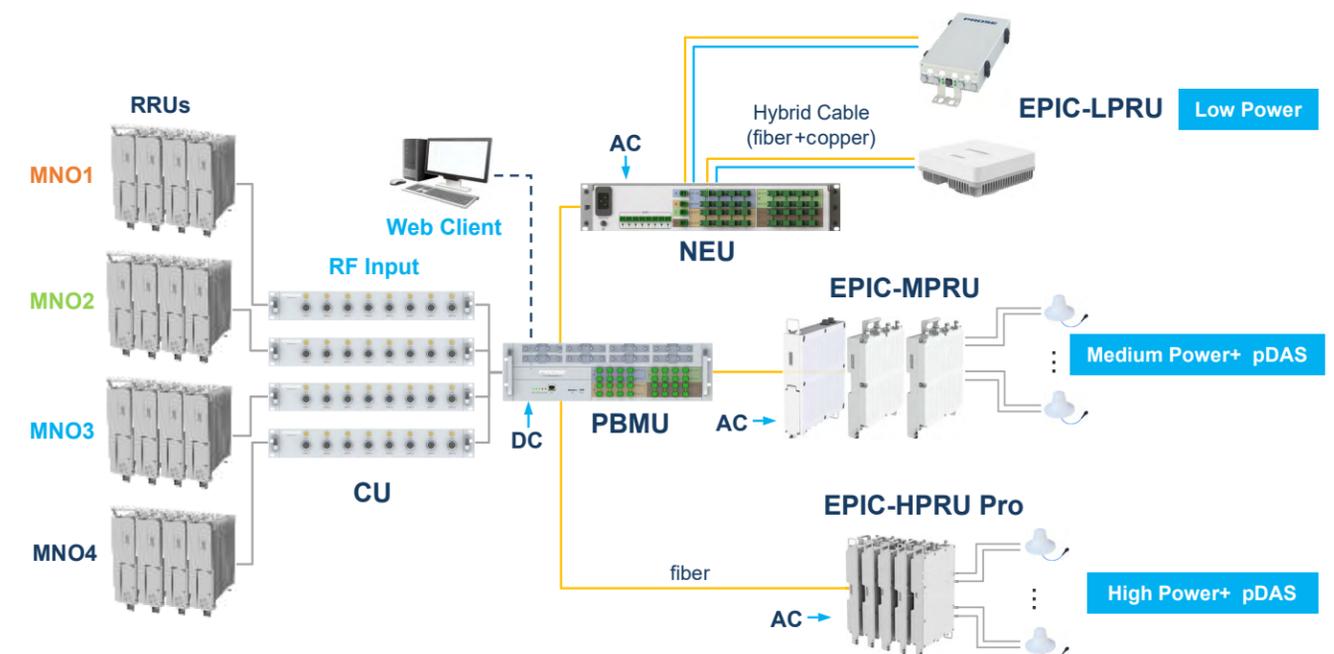
Simple and economical

Deployed via standard Ethernet or optic cabling, achieving rapid deployment, savings in time and installation costs.



Tetra option

Specifically designed for use by government agencies and emergency services (police force, fire department, ambulance, etc.) for public safety networks, train radios for rail transport staff, transport services and the military via Tetra expansion units.



- Combiner Unit (CU)
- Power Balance Master Unit (PBMU)
- Network Expansion Unit (NEU)
- Low Power Remote Unit (LPRU)
- Medium Power Remote Unit (MPRU)
- High Power Remote Unit (HPRU)

EPIC Low Power Remote Unit Series

Product Overview

The EPIC-LPRU system operates from 698 to 3980MHz and extends 2G, 3G, 4G and 5G broadband data coverage to indoor environments. PROSE's EPIC-LPRU solution supports multiple operators deploying multiple mobile technologies and is particularly suited for high-capacity installations such as business towers, shopping malls, offices, airports, event stadiums, and other indoor deployments.

The EPIC-LPRU system is much more than just replacing RF coaxial cables with optical fibers. The core of the system, consisting of the Power Balance Master Unit (PBMU), the Network Extender Unit (NEU) and the integrated Remote Unit (IRU-O), deals with the signal processing and the conversion between RF signals and optical signals. The optical signals are transmitted over single mode fiber with very little loss and virtually no increase in noise floor. The NEU uses hybrid cable (an integrated power and fiber cable) to connect to the integrated Remote Unit (IRU-O), where each NEU can connect 16 units of IRU-O for 2x2 MIMO, or 8 units of IRU-O for 4x4 MIMO applications.

Main Features

- Easy and quick to design and deploy Fiber DAS, where RF radiated power is determined only by each IRU-O
- Easy to achieve uniform coverage, since each IRU-O has consistent output power
- Easy to adjust the RF output power level in specific applications
- No losses in signal transmission
- No PIM and VSWR issues
- Supports diversity network architecture, including SISO and MIMO configurations
- Up to 64 IRUs in 4x4 MIMO or 96 IRUs in 2x2 MIMO per PBMU



Electrical Specifications

	Uplink	Downlink	
Frequency (Customized)	Band 1	1920 - 1980 MHz	2110 - 2170 MHz
	Band 3	1710 - 1785 MHz	1805 - 1880 MHz
	Band 5	824 - 849 MHz	869 - 894 MHz
	Band 7	2500 - 2570 MHz	2620 - 2690 MHz
	Band 8	880 - 915 MHz	925 - 960 MHz
	Band 12	698 - 716 MHz	728 - 746 MHz
	Band 13	776 - 787 MHz	746 - 757 MHz
	Band 14	788 - 798 MHz	758 - 768 MHz
	Band 20	832 - 862 MHz	791 - 821 MHz
	Band 25	1850 - 1915 MHz	1930 - 1995 MHz
	Band 28	703 - 748 MHz	758 - 803 MHz
	Band 30	2305 - 2315 MHz	2350 - 2360 MHz
	Band 40	2300 - 2400 MHz	2300 - 2400 MHz
	n41	2496 - 2690 MHz	2496 - 2690 MHz
	Band 66	1710 - 1780 MHz	2110 - 2180 MHz
	n78	3300 - 3700 MHz	3300 - 3700 MHz
	n78	3400 - 3800 MHz	3400 - 3800 MHz
n77(DOD)	3450 - 3550 MHz	3450 - 3550 MHz	
n77(C-band)	3700 - 3980 MHz	3700 - 3980 MHz	
Sysrm Gain	14 dB ± 2 dB	14 dB ± 2 dB	
RF Output Power	≤ -25 dBm	27/24/18 dBm ± 1 dB (RF per port)	
Spurious emissions (Out of band)	≤ -36 dBm/9 KHz ~ 1 GHz	≤ -36 dBm/9 KHz ~ 1 GHz	
	≤ -30 dBm/1 GHz ~ 12.75 GHz	≤ -30 dBm/1 GHz ~ 12.75 GHz	
Max. operation Input Power	---	≤ 20 dBm	
Impedance	50 Ω	50 Ω	
Power Supply	DC -48V ± 10%		

Optical Specifications

	Uplink	Downlink
Optical Power	PBMU	---
	NEU	5 dBm ± 2 dB
	IRU-O	5 dBm ± 2 dB
Optical Wavelength	1310 nm + WDM	1550 nm + WDM
Optical connector	SC/APC	

Environmental Specifications

PBMU

Operating temperature range	-10°C to +45°C
Storage temperature range	-40°C to +85°C
Relative humidity	10% - 95%
Ingress protection	IP40 for indoor
Cooling	Passive Cooling

NEU

Operating temperature range	-10°C to +45°C
Storage temperature range	-40°C to +85°C
Relative humidity	10% - 95%
Ingress protection	IP40 for indoor
Cooling	Passive Cooling

IRU-O Indoor

Operating temperature range	-10 °C to +45 °C
Storage temperature	-40°C to +85°C
Relative humidity	10% - 95%
Ingress protection	IP50
Monitoring and control	Remote control via IM2U/PBMU

IRU-O Outdoor

Operating temperature range	-25 °C to +55 °C
Storage temperature	-40°C to +85°C
Relative humidity	5% - 98%
Ingress protection	IP65
Monitoring and control	Remote control via IM2U/PBMU

Mechanical Specifications

PBMU

Dimensions	3U/2U 19" Rack
Optical connector	SC/APC
RF connector	QMA-Female
Installation	19" Rack Mount

NEU

Dimensions	2U 19" Rack
Fiber optical connectors	SC/APC
Mounting	Wall or rack

IRU-O Indoor

Optical connector	SC/APC
Installation	Ceiling, wall or pole mounted
Antenna	Integrated Omni antenna

IRU-O Outdoor

RF connector	4.3-10/N-Female
Optical connector	SC/APC
Installation	Ceiling, wall or pole mounted

EPIC High Power Remote Unit Sub 3G+5G Series

Main Features

- Ideal for a wide variety of indoor and outdoor applications to provide coverage enhancement for multi-band and multi-operator environments
- Provides up to 46dBm RF power per band at the output port
- A compact modular platform that supports combination from 1 to 4 frequency bands, plus 2 additional bands for MIMO, or up to 2 bands with redundant LPAs
- Supports 2G, 3G, 4G and 5G applications
- Standard module for plug & play
- Can be locally and remotely monitored and controlled via its integrated software, with remote control software of OMT and NMS available as per customer's requirements



Electrical Specifications

		Uplink	Downlink
Frequency (Customized)	Band 1	1920 - 1980 MHz	2110 - 2170 MHz
	Band 3	1710 - 1785 MHz	1805 - 1880 MHz
	Band 5	824 - 849 MHz	869 - 894 MHz
	Band 7	2500 - 2570 MHz	2620 - 2690 MHz
	Band 8	880 - 915 MHz	925 - 960 MHz
	Band 20	832 - 862 MHz	791 - 821 MHz
	Band 28	703 - 748 MHz	758 - 803 MHz
	Band 40	2300 - 2400 MHz	2300 - 2400 MHz
	n41	2496 - 2690 MHz	2496 - 2690 MHz
n78	3400 - 3800 MHz	3400 - 3800 MHz	
RF Output Power (dBm)		-10dBm	43/46dBm
Typical System Gain (dB)		43	43
Attenuator Range(dB)		≥ 30	≥ 30

Mechanical Specifications

Power Supply	AC/DC
Ports	4.3-10/DIN/N-F
Operating Temperature	-25 °C to +55 °C
Ingress Protection	IP65

Software Specifications

Local Control	Ethernet port Via LAN
Remote Control	Ethernet port Via LAN
	Wireless Modem

EPIC High Power Remote Unit 5G NR Series

Main Features

- Supports n78 2x2 MIMO with 5G technology
- A compact modular platform
- Management via OMT or NMS management software
- Easily installed on a wall, in a tunnel, and on the ground



Electrical Specifications

		Uplink	Downlink
Frequency	n78 (2x2 MIMO)	3400 - 3800 MHz	3400 - 3800 MHz
Typical Gain		50 dB ± 3 dB	50 dB ± 3 dB
Max RF Power		---	43/46 dBm ± 2 dB
Optical Power		5 dBm ± 2 dB (O/P)	
Gain Flatness		± 1.5 dB/carrier	± 1.5 dB/carrier
Attenuation range		25 dB/1 dB step	25 dB/1 dB step
Automatic Level Control		10 dB, auto gain setting	10 dB, auto gain setting
Optical wavelength		1310 nm	1550 nm
Power Supply		AC 90 ~ 264V, 50/60Hz	

Environmental Specifications

Operating temperature range	-25°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	10% - 95%
Ingress Protection	IP65

Mechanical Specifications

Connector	4.3-10 / N-Female
Optical Connector	SC/APC
Mounting	Wall/ground

EPIC High Power Remote Unit Pro 5G NR Series

Product Overview

- Integrated design for 5G NR 2x2 MIMO
- Support up to 4 operators for colocation
- High system gain and high power output to support 4x43dBm
- High reliability and stability
- Low delay is suitable for 5G TDD system, which support great length for fiber route especially for BTS hotel application
- Passive heat dissipation to improve product reliability
- Redundant backup and automatically switch over in case of failure to ensure network service
- Good dustproof and waterproof performance to support indoor and outdoor installation



Electrical Specifications

		Uplink	Downlink
Frequency (Customized)	n41 (2x2 MIMO)	2496 - 2690 MHz	2496 - 2690 MHz
	n78 (2x2 MIMO)	3300 - 3700 MHz	3300 - 3700 MHz
	n78 (2x2 MIMO)	3400 - 3800 MHz	3400 - 3800 MHz
	n77(DOD) (2x2 MIMO)	3450 - 3550 MHz	3450 - 3550 MHz
	n77(C-band) (2x2 MIMO)	3700 - 3980 MHz	3700 - 3980 MHz
Sysrm Gain	33 dB ± 2 dB	33 dB ± 2 dB	
RF Output Power	-30 dBm ± 2 dB	46 dBm ± 2 dB (RF per port)	
Spurious emissions	Meets 3GPP TS 38.104 for NR		
EVM (256 QAM)	≤ 3.5%	≤ 3.5%	
Max. operation Input Power	---	≤ 20 dBm	
Impedance	50 Ω	50 Ω	

Optical Specifications

		Uplink	Downlink
Optical Power	PBMU	---	0 dBm ± 2 dB
	HPRU	9 dBm ± 2 dB	---
Optical Wavelength	1310 nm	1550 nm	
Optical connector	SC/APC		

Environmental Specifications

HPRU	
Operating temperature range	-40°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5% - 95%
Ingress protection	IP67
Monitoring and control	LAN-RJ45 (local)
Cooling	Passive cooling

EPIC High Power Remote Unit Pro Sub 3G+5G Series

Product Overview

- Modular design for flexible configuration
- Support 2G, 3G, 4G, 5G technologies
- Support up to 8 bands SISO or 4 bands 2x2 MIMO
- Independent gain control and filtering
- Low-noise and high reliability
- Passive heat dissipation
- 2 individual channels to support same band MIMO or separate band SISO



Electrical Specifications

		Uplink	Downlink
Frequency (Customized)	Band 1	1920 - 1980 MHz	2110 - 2170 MHz
	Band 3	1710 - 1785 MHz	1805 - 1880 MHz
	Band 5	824 - 849 MHz	869 - 894 MHz
	Band 7	2500 - 2570 MHz	2620 - 2690 MHz
	Band 8	880 - 915 MHz	925 - 960 MHz
	Band 12	698 - 716 MHz	728 - 746 MHz
	Band 13	776 - 787 MHz	746 - 757 MHz
	Band 14	788 - 798 MHz	758 - 768 MHz
	Band 20	832 - 862 MHz	791 - 821 MHz
	Band 25	1850 - 1915 MHz	1930 - 1995 MHz
	Band 28	703 - 748 MHz	758 - 803 MHz
	Band 40	2300 - 2400 MHz	2300 - 2400 MHz
	n41	2496 - 2690 MHz	2496 - 2690 MHz
	Band 66	1710 - 1780 MHz	2110 - 2180 MHz
Sysrm Gain	n78	3300 - 3700 MHz	3300 - 3700 MHz
	n78	3400 - 3800 MHz	3400 - 3800 MHz
RF Output Power	Sub3G	35 dB ± 2 dB	35 dB ± 2 dB
	5G	33 dB ± 2 dB	33 dB ± 2 dB
Spurious emissions	Sub3G	-30 dBm ± 2 dB	43.5 dBm ± 2 dB (RF per port)
	5G	-30 dBm ± 2 dB	46 dBm ± 2 dB (RF per port)
Impedance	Meets 3GPP TS 36.106 for LTE, 3GPP TS 38.104 for NR		
Impedance	50 Ω	50 Ω	

Environmental Specifications

HPRU	
Operating temperature range	-40°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5% - 95%
Ingress protection	IP67
Monitoring and control	LAN-RJ45 (local)
Cooling	Passive cooling

EPIC Medium Power Remote Unit Series

Product Overview

- 2W composite output power
- Compact size with low weight
- Up to 8 x 4T4R MPRU can be connected with a single PBMU/IM2U
- Flexible installation and maintenance



Electrical Specifications

		Uplink	Downlink
Frequency	n78 (4x4 MIMO)	3400 - 3800 MHz	3400 - 3800 MHz
Gain		40 dB ± 2 dB	40 dB ± 2 dB
RF output power		---	33 dBm ± 1 dB
Optical output power		5 dBm ± 1 dB	---
ALC control		10 dB overdrive protection	10 dB overdrive protection
Gain control range		15 dB / 1 dB step	15 dB / 1 dB step
Ripple in band		≤ ±3 dB	≤ ±3 dB
Spurious Emissions		≤ -36 dBm@9KHz - 1GHz	≤ -36 dBm@9KHz - 1GHz
		≤ -30 dBm@1GHz - 12.75GHz	≤ -30 dBm@1GHz - 12.75GHz
EVM (256QAM)		≤ 3%	≤ 3%
Max. non-destructive input power		-10 dBm	---
Impedance		50 Ω	50 Ω
Power supply		90 ~ 264 VAC	

Environmental Specifications

Operating temperature range	-40°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5% - 98%
Ingress protection	IP67
Monitoring and control	LAN-RJ45 (local)
	Remote control via PBMU/IM2U

PROSE WIRELESS SOLUTION



High Power 5G NR Digital Wireless Repeater

Main Features

High power 5G NR digital wireless repeater is designed to support 5G technology applications and features:

- Up to 95dB gain with an integrated design which offers exceptional coverage
- Variable single sub-band to support multi- technology applications with variable instantaneous bandwidth to support evolving network requirements
- User adjustable gain control, Automatic Gain Control



Electrical Specifications

		Uplink	Downlink
Frequency	n78	3400 - 3800 MHz	3400 - 3800 MHz
Output Power		23 dBm ± 2 dB	37 dBm ± 2 dB
Max Gain		90 dB ± 3 dB	95 dB ± 3 dB
AGC Range		≥ 30 dB	≥ 30 dB
Attenuation range		30 dB/1 dB step	30 dB/1 dB step
Ripple in band		≤ 3 dB	≤ 3 dB
VSWR (Return loss)		≤ 1.5 (>14 dB)	≤ 1.5 (>14 dB)
Max input power (non-destructive)		10 dBm	10 dBm
Impedance		50 Ω	50 Ω
Power Supply		176 ~ 264 VAC	

Environmental Specifications

Operating temperature range	-20°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5% ~ 95%
Ingress Protection	IP65

Mechanical Specifications

Connectors type	N female
Mounting	Pole
Local Control	RJ45

Tri-band High Power Digital Wireless Repeater

Main Features

- Superior RF performance, High Efficiency
- Digital System for LTE technology
- High Gain and Low Noise Figure
- IP65 for indoor/outdoor application
- Operating Frequency and working bandwidth can be customized by OMT software and NMS
- Intelligent wireless modem monitoring, automatic alarm report and remote control
- Easy installation, operation, and maintenance



Electrical Specifications

		Uplink	Downlink
Frequency	Band 1	1920 - 1980 MHz	2110 - 2170 MHz
	Band 3	1710 - 1785MHz	1805 - 1880MHz
	Band 8	880 - 915 MHz	925 - 960 MHz
Output power		27 dBm ± 2 dB	43 dBm ± 2 dB (per band)
Gain		85 dB ± 3 dB	90 dB ± 3 dB
Gain control range		30 dB/1 dB step	30 dB/1 dB step
Ripple in band		≤ ±2 dB Typical @ per sub-band	≤ ±2 dB Typical @ per sub-band
VSWR		≤ 1.5	≤ 1.5
Transmission delay		≤ 5 μS	≤ 5 μS
Max. non-destructive input power		-10 dBm	-10 dBm
Impedance		50 Ω	50 Ω
Power supply		110-260 VAC,47/63 Hz	

Functions-Variable Multiple Sub-bands

Max bandwidth of Sub-band	200 kHz - 20 MHz (100 kHz /step)
Sub-bands per band	2
Total sub-bands	6

Environmental Specifications

Operating temperature range	-25°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5% - 95%
Applications	IP65
Monitoring and control	RJ45 (local) Wireless modem (remote)

Mechanical Specifications

Connectors type	N female
Mounting	Wall or pole
Packing	1 Pcs in box

Tri-band Low Power Digital Wireless Repeater

- Up to 95dB gain with an integrated design which offers exceptional coverage
- high out band rejection to prevent the unwanted interference from outdoor or from other operators
- variable single sub-band to support multi-operator applications with variable instantaneous bandwidth to support evolving network requirements
- Support isolation detection and AGC



Electrical Specifications

		Uplink	Downlink
Frequency	Band 1	1920 - 1980 MHz	2110 - 2170 MHz
	Band 3	1710 - 1785MHz	1805 - 1880MHz
	Band 8	880 - 915 MHz	925 - 960 MHz
Max Gain		90 dB ± 3 dB	95 dB ± 3 dB
Output Power		20 dBm ± 2 dB	27 dBm ± 2 dB
Attenuation range		30 dB/1 dB step	30 dB/1 dB step
Automatic Level Control		≥ 20 dB, auto gain setting	≥ 20 dB, auto gain setting
VSWR		≤ 1.8	≤ 1.8
Impedance		50 Ω	50 Ω
Maximum input power, no damage		-10 dBm	-10 dBm
Power Supply		100/220 VAC,50/60Hz	

Functions -Variable Single Sub-band

Bandwidth of sub-bands	1MHz - 20 MHz (1MHz step)
Center Frequency of Sub-bands	1MHz/step
Sub-bands per band	3
Total sub-bands	9

Environmental Specifications

Operating temperature range	-25°C to +55°C
Storage temperature range	-40°C to +85°C
Relative humidity	5% - 95%
Ingress Protection	IP65

Mechanical Specifications

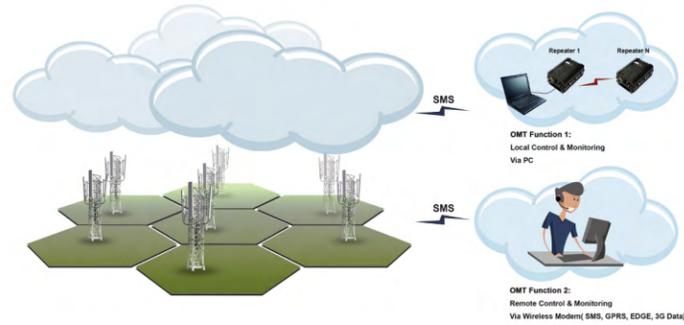
Connectors type	N female
Mounting	Pole / Wall
Packing	1 Pcs in box

OMT & NMS



Operation and Maintenance Terminal (OMT)

Communication



Main Features

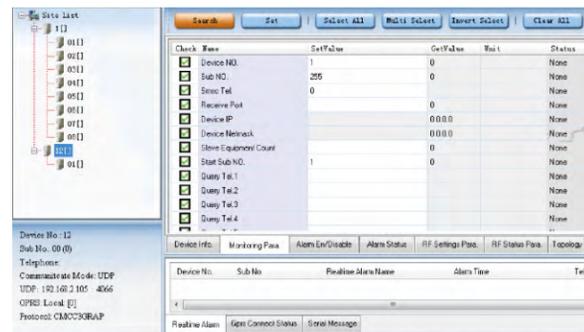
- OMT for Local and remote monitoring
- Free and simple installation
- Able to control and monitor different types of equipment (2G/3G/LTE, etc.)
- Automatic alarm reporting
- Local and remote firmware upgrade through UDP mode
- Supports UDP, SMS and GPRS data communication

Description

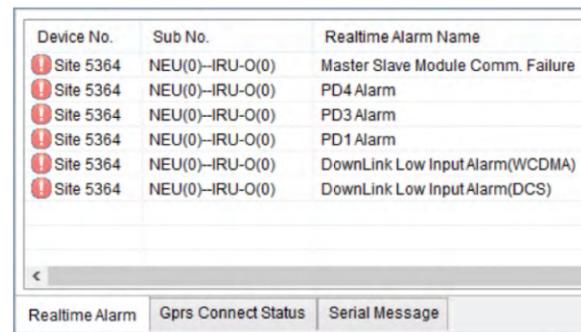
OMT is a complete control tool for the maintainer to locally and remotely monitor the system.

- Supports connecting to all types of equipment with LAN or SMS or GPRS modem base on UDP/TCP and SMS
- Monitoring alarms and controlling parameters of the DAS are all available within this software

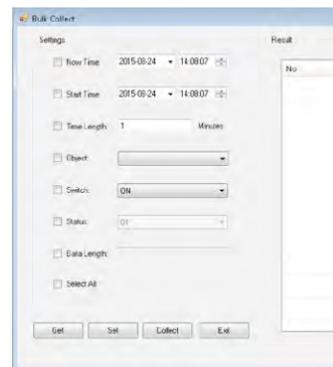
Main Features



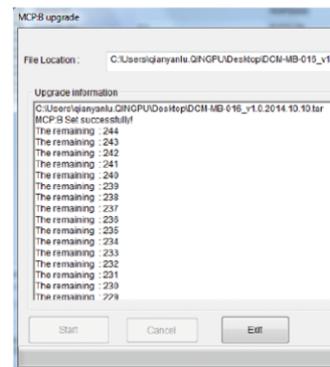
Control Parameter



Alarm Monitor



Performance Getting



Remote Upgrade Module



Remote Upgrade Firmware

Operation and Maintenance Center (OMC/NMS)

Product Overview

PROSE Operation and Maintenance Center software is the network management solution for all PROSE repeaters and distribution systems and provides basic functions of TMN and a solution to integrate monitoring equipment, including configuration, alarm monitoring, topology view, tasks, security management, log management etc.



Main Features

- Supports integration with other NMS by SNMP North Bound Interface
- The location of equipment can be located on an E-Map by longitude and latitude
- The OMC can detect faults and keep alarms of any events as they arise or clear
- The OMC provides customized functions such as alarm severity redefinition to meet requirements in various scenarios
- The parameters of equipment can be configured remotely by web browser
- The polling parameters and batch operations are supported by task management
- The OMC records system and NE communication log and analyzes the NE communication log
- The OMC allows for single or multiple batch upgrades to devices that are attached to the OMC

Software Requirements

OMC Server	Operation system	Windows Server 2016 or above
	Database	MySQL 8.0.28
User Client	Operation system	Windows 7 or above
	Browser	Google Chrome

Topology View

Topo Tree View of Network by Domain/Area	Create/Modify basic NE attributes
Device Statistics by Network Domain/Area	Display main menu bar
Add connected physical devices in the topology	Alarm Statistics
Refresh Devices	Fault Status of Device

Configuration

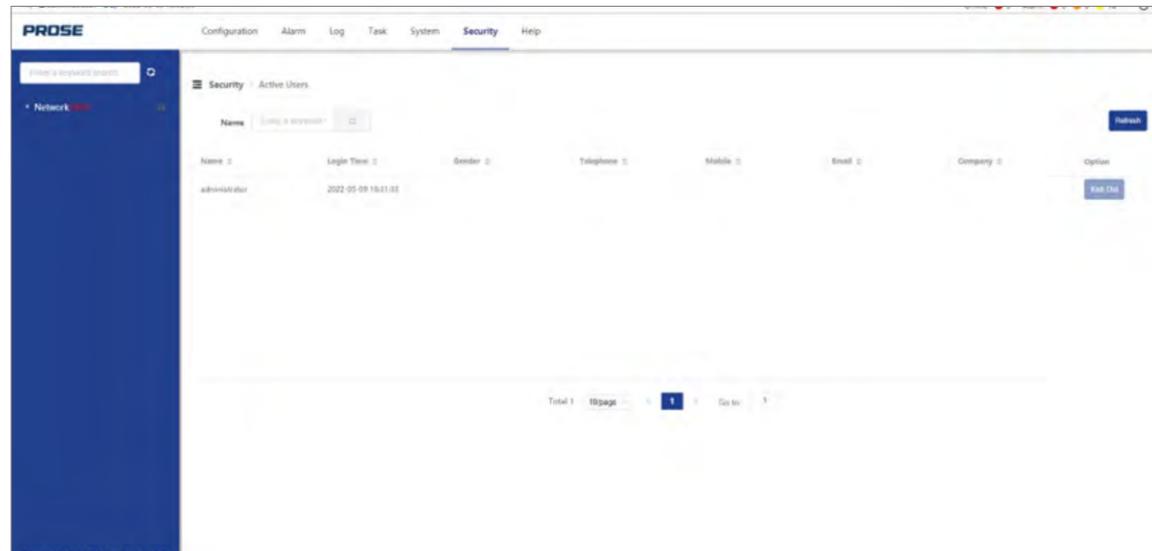
Network Element Node Management	Query/set for a device parameter
Export information about all devices in the OMC	Set the parameters of one or more devices in batches

Alarm Management

Alarm Filters	Alarm Alert by Icon
Auto-Refresh Real-time Alarm List	Manual Alarm Synchronization
Alarm History	Alarm Clearing
Alarm Level Customization	Alarm Acknowledgement
Export alarm information	Forward Alarms to other maintainer by North Bound Interface

Security Management

Display Online Users	User Group Management
Manage the sensitive keyword	Privilege Management by Function, Area/Device, Parameters
Lock user/kick user	Reset user passwords



Add User

* User Name Gender Male Female
 * Password * Confirm Password
 Telephone Mobile
 Email Company
 * User Group administrators

Add Group

* Group Name

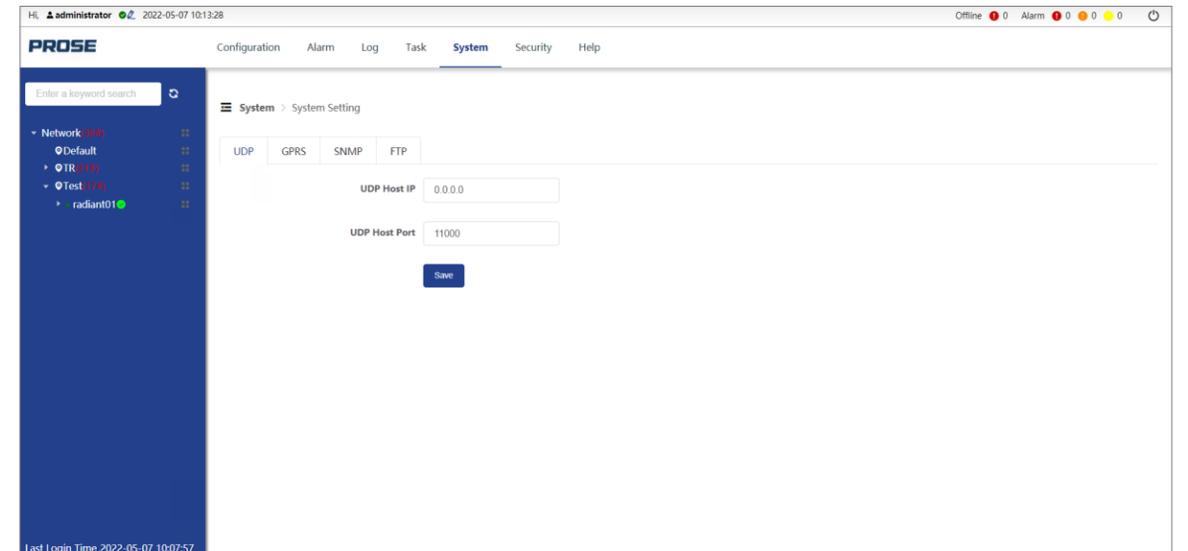
Specific Privileges

Privilege Area

- Log Management
- Fault
- Task Management
- Configuration
- Security Management
- Topology
- System

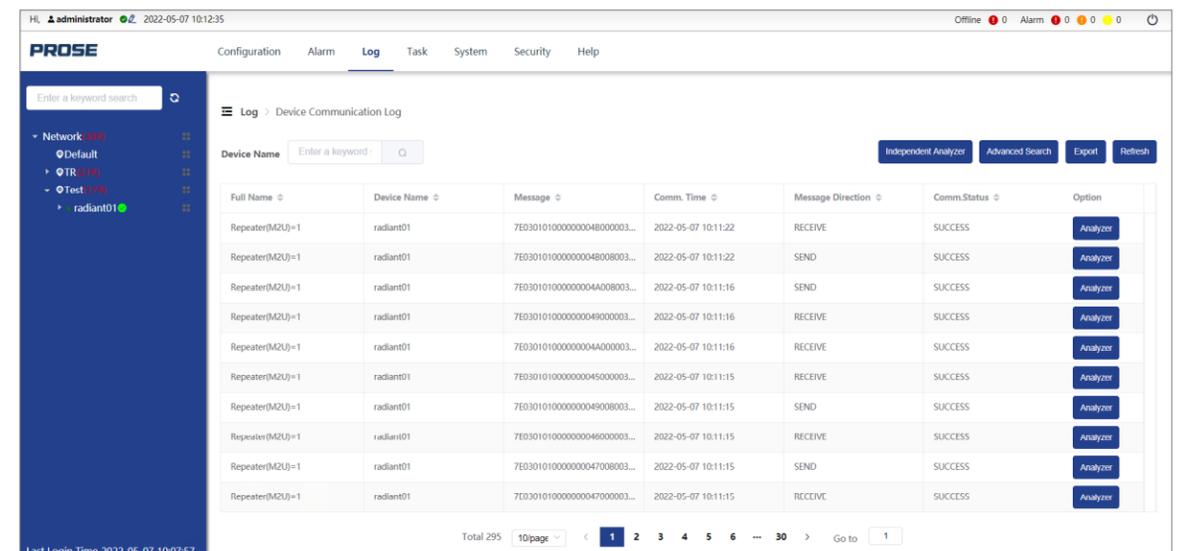
System Management

Alarm Forwarding Settings	SNMP Settings
GPRS/UDP IP and Port settings	Configure FTP upgrade information
Login/password and other general information settings	



Log Management

Operation Log & System Log	Log Data Export
Device Communication Log	Analyze Log Tool



Polling Task of Parameters	Operation Task of parameters
Firmware Download Task	Export to Task Report

Full Name	Device Name	Message	Comm. Time	Message Direction	Comm. Status	Option
Repeater(M2U)=1	radiant01	7E030101000000048000003...	2022-05-07 10:11:22	RECEIVE	SUCCESS	Analyze
Repeater(M2U)=1	radiant01	7E030101000000048000003...	2022-05-07 10:11:22	SEND	SUCCESS	Analyze
Repeater(M2U)=1	radiant01	7E03010100000004A000003...	2022-05-07 10:11:16	SEND	SUCCESS	Analyze
Repeater(M2U)=1	radiant01	7E03010100000004A000003...	2022-05-07 10:11:16	RECEIVE	SUCCESS	Analyze
Repeater(M2U)=1	radiant01	7E030101000000045000003...	2022-05-07 10:11:15	RECEIVE	SUCCESS	Analyze
Repeater(M2U)=1	radiant01	7E030101000000046000003...	2022-05-07 10:11:15	SEND	SUCCESS	Analyze
Repeater(M2U)=1	radiant01	7E030101000000046000003...	2022-05-07 10:11:15	RECEIVE	SUCCESS	Analyze
Repeater(M2U)=1	radiant01	7E030101000000047000003...	2022-05-07 10:11:15	SEND	SUCCESS	Analyze
Repeater(M2U)=1	radiant01	7E030101000000047000003...	2022-05-07 10:11:15	RECEIVE	SUCCESS	Analyze

PROSE Service

PROSE offers professional services that improve network design, reliability, scalability and efficiency.

Our service core competences include:

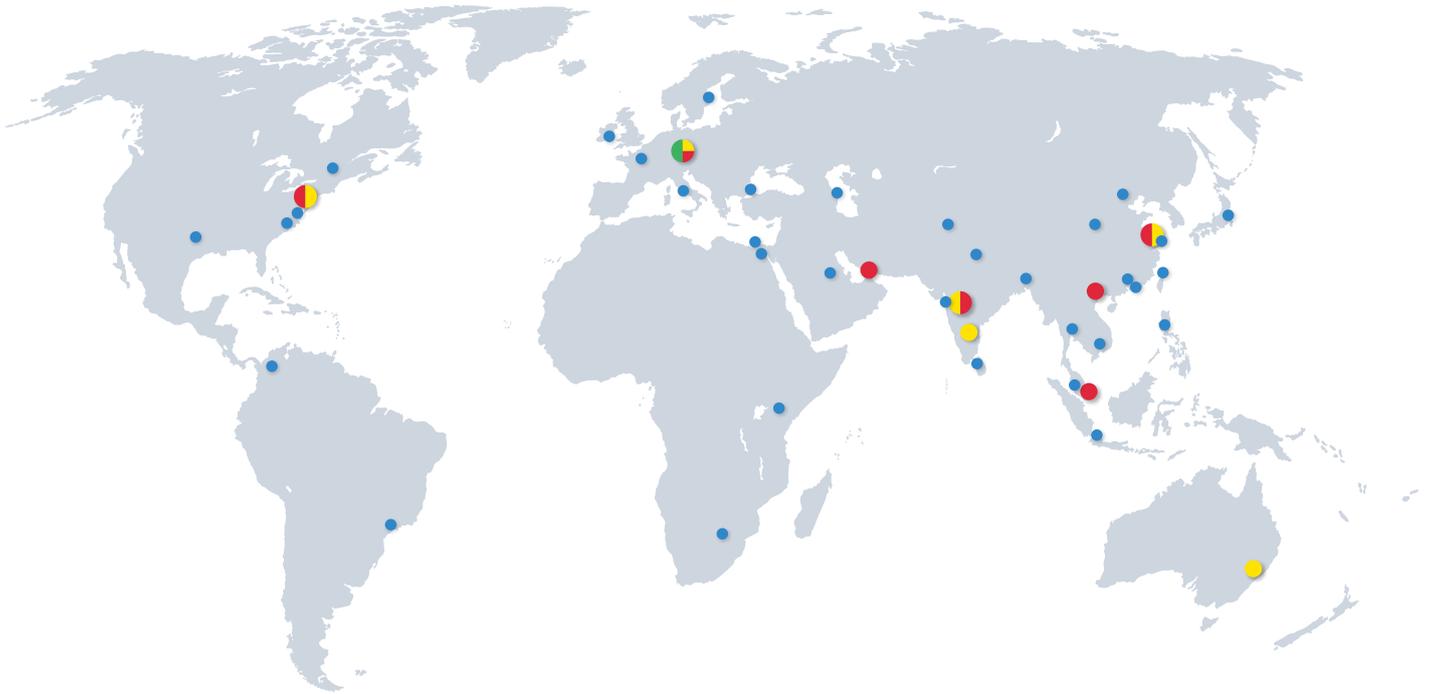
- Network optimization
- Technical consultation
- Customized product design
- Installation & commissioning
- Onsite training & supervision
- System troubleshooting
- After-sales services

In addition, we also offer professional training, technical support and workshops for distributors and agents. We are committed to offering exceptional services for our customers.

PROSE is much more than just a supplier – PROSE is a valued development partner and we will strive to meet new challenges in order to scale to new heights.



GLOBAL FOOTPRINT



- HQ
- PRODUCTION / OPERATIONAL HUB
- R&D CENTER
- SUBSIDIARIES / SALES REPRESENTATIVES



For more information refer to our website:
www.ProseTechnologies.com

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