NE-15 ver S2.0

About NE-15 ver S2.0

NE-15 ver S2.0 is a dual core CPU router that integrates multiple functions with metal housing along with 4G CAT4 LTE support. It supports dual band Wi-Fi which comply with IEEE 802.11ac/b/g/n MIMO standard, The Wi-Fi data rate is up to 866 Mbps with built-in mini-PCI-E interface

It supports one 4G modem and dual SIM card in Active-Standby mode, FDD-LTE/TDD-LTE worldwide full frequencies up to 300 Mbps 4G LTE download speed.

It provides more processing performance, richer interfaces and higher network connection speed than ordinary industrial routers. This product is suitable for different application types and scenarios, such as intelligent parking lot, intelligent transportation, smart electricity grids, supply chain automation, Intelligent data collection, intelligent building, vending machine, video surveillance etc.

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HARDWARE SPECIFICATIONS

CPU	MIPS Dual Core 880 MHz
FLASH	32 / 64 MB
DDR RAM	256 / 512 MB
2.4G WiFi	IEEE 802.11b/g/n, 300 Mbps
5.8G WiFi	IEEE 802.11ac, 866 Mbps
Ethernet	5 x RJ45 ports, 10/100/1000 Mbps
SIM Slot	2 Active-Standby
USB	USB 2.0
LEDs	SYS,4GA, 4GB, 2.4G, 5.8G, WAN, LAN1, LAN2, LAN3, LAN4
Antennas	2 x 2.4G WiFi, 2 x 5.8G WiFi, 2 x 4G
Reset	Factory reset button
Casing material	High Quality Aluminum
Dimensions (L x W x H)	200 x 125 x 30mm
Mounting options	Industrial screw mounting
Power Input	12V 2A
Max Power Consumption	< 24W

ETHERNET

WAN	1 X WAN port 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
LAN	4 x LAN ports, 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards,supports auto MDI/MDIX

MONITORING AND MANAGEMENT

WEB UI	HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, Kernel log
SSH	SSH (v1, v2)
SMS	SMS status
NE-WAN	Compatible
SNMP	SNMPv1/2/3

OPERATING ENVIRONMENT

Operating Temperature	- 40°C ~ +70°C
Operating Humidity	10 % to 95 % non-condensing
Environmental Compliance	RoHs Compliant

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FIRMWARE SPECIFICATIONS

OVERVIEW

- System Details
- Router Memory Utilization Details
- Connected WAN Link Details
- DHCP leases (IPv4 / IPv6)
- Wireless Interface Details & Connected Hosts
- Load Balancing Interfaces With Status

ADMINISTRATION

- Router Password
- SSH Access (Interface Wise)
- SSH Keys (Pre-shared key, digital certificates)

SYSTEM

- Local Time
- Host Name
- Discriptions
- Time Zone
- Syslog Server Configuration
- NTP Server / Client Configuration
- SNMP V 1/2/3

SERVICES

- User Management
- URL Filtering
- Web Filtering
- Domain Filtering
- Content Filtering
- Wi-Fi Captive Portal
- High Availability (VRRP)
- CLI Interface
- Custom Reboot (IP Tracking Based)
- Web Server Configuration

WIRELESS

- Dual Band (2.4 GHz & 5.8 GHz)
- Custom Wi-Fi Channels
- Wi-Fi Security (WPA2-Enterprise-PEAP, WPA2-PSK, WPA-PSK, WEP)
- MAC Filtering
- Advanced Setting

LOAD BALANCING

- Load Balanced Interfaces Status
- Load Balancing Details
- Load Balancing Diagnostics
- Policy / Rule Based Load Balancing
- Parameter / Quality Based Failover
- WAN + SIM Load Balancing

ROUTES

- ARP Details
- Active IPv4 / IPv6 Routes
- IPv6 Neighbours

REAL TIMES GRAPHS

- CPU Load
- Interface Wise Traffic
- Wireless Traffic (Radio Wise)
- Connections - TCP / UDP Sockets

SYSTEM LOGS

- System Log Of Last 24 Hours

INTERFACES

- Static
- DHCP Client (IPv4 / IPv6)
- VX-LAN (IPv4 / IPv6)
- PPPoE
- PPP
- Bridge
- VTI Tunnel
- Loopback
- LTE
- Custom Interface (Aliase Interface)

DYNAMIC ROUTING

- BGP
- OSPF
- ISIS
- RIP
- RIPng

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FIRMWARE SPECIFICATIONS

FIREWALL

- Stateful Zone Based Firewall
- Port Forwarding
- Traffic Rules (Filter Table)
- NAT / PAT
- Mangle / Raw Rules
- Input / Output / Pre-Routing / Post-Routing / Forward Chain Rules
- DDoS Protection (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacks)

VPN

- IPSec (IKEv1 / IKEv2)
- L2tp (Server / Client)
- PPTP (Server / Client)
- Open VPN (Server / Client)
- Wireguard
- Open Connect VPN
- Any Connect VPN
- GRE Tunnel (IPv4 / IPv6)
- GRETAP (IPv4 / IPv6)
- IPSec Tracking For Failover

DHCP & DNS

- DHCP Server Configuration
- DNS Server Configuration
- Static Lease Configuration
- TFTP Server Configuration
- Client Hostname Configuration
- DHCP Relay Configuration

SIM SWITCHING

- Automatic (Based on IP Tracking)
- Time Based SIM Switching
- Jitter Based SIM Switching
- Manual SIM Switching
- Automatic (Based on Signal Parameters - RSSI / RSRQ / RSRP / SINR)

STATIC ROUTING

- Static IPv4 / IPv6 Routing

SWITCH

- V-LANs (Port & Tagging Based)

QoS

- Traffic Classification / Prioritization (Interface / Port Based)

DIAGNOSTICS

- Ping
- Traceroute
- Nslookup

DATA ANALYTICS

- Traffic Distribution
- Application Protocol Wise Usage

SMART QUEUE MANAGEMENT

- Bandwidth Distribution (Interface / V-LAN Based)

BACK-UP / FLASH FIRMWARE

- Firmware Upgrade
- Configuration Backup
- Configuration Restore

REBOOT

- Router Reboot

SMS Control

- Device Reboot
- SIM Switching
- Active SIM status

SIM INFO

- Information Of Connected SIM

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