

KN SP 16

Weather Proof Telephone SIP VoIP

**Acorn
Monitoring**



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Road Rail Tunnel Ports Factories Public Buildings Security Transport Utilities



The Koon Technology KN SP-16 **SIP VoIP** weatherproof telephone IP66 rated and has been designed for operation in harsh environments, designed for Railway, Shipping and Tunnel applications as well as for many other applications indoor and outdoor use in wet or corrosive environments.

KN SP-16 is manufactured to a very high standard with a robust die cast aluminum housing with door spring, IP66 rated providing protection against all the weather elements as well as dirt and ingress. Built with tough vandal resistant components.

KN SP-16 meets the latest UK & European standards CE Mark, EMC, RoHS, lightning protection and with a wide operating temperature range, is built for long term high reliability of operation. **Network Rail approved.**

Applications

A robust telephone for use in wet or corrosive atmospheres such as sea water in docks and on ships and used by Railways, (UK Rail Approved) Metro Underground, Factories, Taxi or Bus Stands & Stations, Motorway Roadside call box, Tunnel, Port, Dock, Mines, Power Generation facilities and many more.

System Features. ticks all the right boxes

- ✓ **IP SIP VoIP Telephone**
 - ✓ Supports 2 lines SIP. SIP 2
 - ✓ **WAN/LAN: support Bridge mode, Support VLAN**
 - ✓ Support PPPoE for xDSL
 - ✓ **Support DHCP get IP on WAN port**
 - ✓ GSM version solar powered with battery back up
 - ✓ **Robust aluminum alloy die-cast body**
 - ✓ **Vandal Resistant - Tamper Proof**
 - ✓ **Full keypad with programmable 10 button speed dial telephone, illuminated button option**
 - ✓ Weather resistant to IP67 standard
 - ✓ **Handset made of special engineered plastic, anti knock resistant, waterproof armoured cable**
 - ✓ Wide service temperature range from: -10 degrees to +75 degrees
 - ✓ **Telephone line powered POE. No external power or battery backup required**
 - ✓ Hearing Aid compatible receiver
 - ✓ **Noise canceling microphone**
 - ✓ Handset integrity wiring for telephone system to check if the telephone unit is still operational.
 - ✓ **Lightening protection to ITU-T recommendation K.21**
 - ✓ Ingress Protection: GB4208-93 IP66. CE. EMC: EN55022/EN55024/EN50121-3-2: 2006 FCC
- Trusted By Customers - Worldwide**

Koon Technology telephones are in service with many of the world's largest companies: Railways, Banks, Underground, Mining, Power Generation, Airlines Banking, Government, Shopping Malls to name but a few.

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Koon Technology is approved by the above manufactures and many more...

Technical Specifications

Support 2 lines SIP, SIP 2.0 (RFC3261)

Codec : G.711A/u, G.7231 high/low, G.729, G.722, G.726 Echo cancellation Support G.168 and hand-free can support 96ms.

Support VAD, CNG, NAT transverse: support STUN

Supports full duplex. SIP support SIP domain, SIP authentication (none, basic, MD5, DNS name of server, peer to peer).

SIP support 2 servers, can call in and out through each server. DTMF: SIP info, DTMF Relay, RFC2833

SIP application: contain SIP call forward/transfer/holding/waiting/3 way conference/Paging and intercom/ click to dial/pickup/ joincall/redial/unredial. Call control features: Flexible dial map, support hotline, empty calling no. reject server, black list for reject, authenticated call, no disturb, caller ID and so on.

Could dial use private server automatically when public server unregistered while private server is resgistered successfully

Phonebook 500 records, incoming calls / outgoing calls / missing calls. Each supports 100 records

Support MWI, Support conference call in server

Phonebook supports VCard standard

Support 12/24 time format. Support daylight saving time Support path, gruu. Support SIP Privacy.

Network Features

WAN/LAN: support Bridge mode.

Support PPPoE for xDSL, support VLAN

Support Stun penetration

Support DHCP get IP on WAN port. Qos supports Diffserv.

Support network tools: ping, traceroute, telnet client Maintenance and Management

The phone supports post mode, can update firmware by post mode. Supports different levels of administration.

Support Boot Monitor can upgrade firmware through boot monitor and access with different authority support auto provisioning

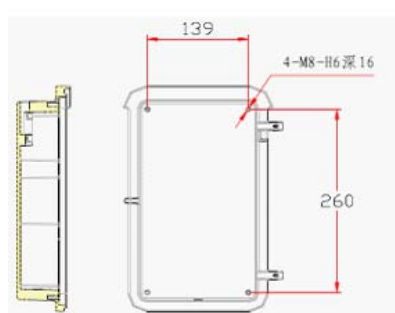
Can config through Web, Keypad, Telnet

Can upgrade firmware and configuration file through HTTP, FTP, TFTP. Support syslog

Certified Standards

EMC: EN50121 Railway application electromagnetic compatibility. EN55022: Emissions EN55024; Immunity Ingress protection: IP66 GB4208-93 CE Mark FCC ISO9000

Item	this VoIP Phone
Adapter(Input/Output)	Input:100-240VAC 50~60Hz Output:5V/1A Or POE optional
Port WAN	10/100Base- T RJ-45 for LAN, Auto MDIX
Port LAN	10/100Base- T RJ-45 for PC, Auto MDIX
Power Consumption Idle:	1.5W/Active:1.8W
LCD size	74 x 28mm
Operation Temperature	0~40°C
Relative Humidity	10~65%
Main Chipset	Broadcom
SDRAM	8Mbits
Flash	2Mbits
Size (W x H x D)	11.6x8x3 in.(295x205x75mm)
Weight	2.07lb.(0.94kg)



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