



THE NEXT GENERATION IS HERE.

BASE STATION V4

FEATURES



REDUCE INSTALL
COSTS BY AS
MUCH AS 80%



PERFECT FOR
REMOTE AREAS

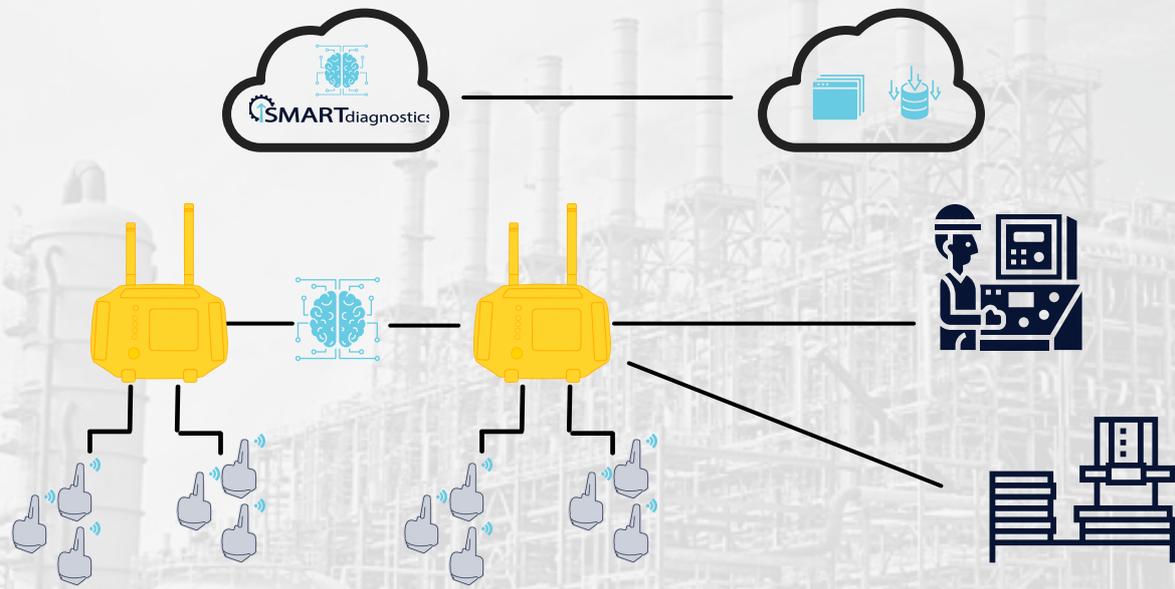


BUILT FOR HARSH
ENVIRONMENTS



UNPARALLELLED
DATA RELIABILITY





The Base Station V4 provides a simple, plug-and-play receiver location with minimal configuration or setup necessary, and its ruggedized construction makes it appropriate for all industries.

Mesh technology enables reliable data transmission to even the most remote areas of your plant.



Reduce Recurring Costs.

By choosing ethernet, no longer pay recurring cellular costs by the tens of thousands.



Simplest Install Ever

No ethernet port? No problem. Mesh wireless means only one port is needed for every five BSv4.



No data left behind

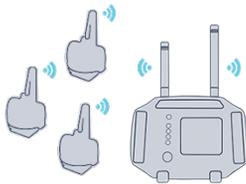
Connection Lost? No worries! With ample internal storage, BSv4 can store close to a full year of data

COMING SOON - EDGE COMPUTING.

SMARTdiagnostics® BASE STATION V4 (SD-BSN-4)

The Base Station Next is the nerve center of any industrial SMARTdiagnostics® installation, allowing effective predictive maintenance for industrial equipment. The BSv4 provides a simple, plug-and-play receiver location with minimal configuration or setup necessary, and its ruggedized construction makes it appropriate for all industries.

- Relays data from sensor nodes to the SMARTdiagnostics® analysis software
- Integrated Collection Server, Primary Receiver Node
- Edge computing will be enabled by firmware update



REMOTE ACCESS

KCF's Base Station V4 enables the user to place wireless sensors in remote locations, providing communication to the cloud. A single BSv4 can interface with sensor nodes & other BSv4s to gather data from various locations in a plant. BSv4 can operate unattended and be managed remotely.

RELIABLE DATA

The SMARTdiagnostics® Base Station V4 is a ruggedized industrial computer used to manage and organize data collected from sensor nodes, providing guaranteed sensor information delivery even when communications with SMARTdiagnostics® is unavailable. Additionally, BSv4 preprocesses sensor data before conveying it to SMARTdiagnostics® in the cloud.

COST EFFECTIVE

The Base Station V4 relays data to SMARTdiagnostics® in the cloud through a network connection. This is accomplished via:

- Ethernet (IEEE 802.3)
- Mesh Network (IEEE 802.11)
- Cellular Data Network

Each option has its own benefits depending on the setup of the plant.

BASE STATION V4 SPECIFICATIONS

General

Size	11.6 W x 15.5 H x 4.75 D [in] 295 W x 394 H x 121 D [mm] (without antennas 9.0in H [229mm])
Weight	10 lbs (4.5kgs)
Certifications	cETLus, CE Conforms to UL Std. 62368-1 Cert. to CSA Std. C22.2 No. 62368-1

Environmental

Operation & Storage Temperature	-4°F to 131°F (-20°C to 55°C)
IP Rating	IP66k In Development
Hazardous Certification	In Development

Software and Connectivity

Network and Communications	<ul style="list-style-type: none"> Ethernet (IEEE 802.3) Mesh WI-FI (IEEE 802.11) Cellular – LTE CAT12 Modem (call for specifics on supported Carriers)
FCC ID	Z5ISL1
Contains FCC IDs	N7NEM75, XPYBMD345
IC	24664-SL1

Power

Power Source	120-240 VAC 50/60 Hz
Power Consumption	36W Max
Power Cable	<ul style="list-style-type: none"> SD-Base-4-02NA: 5.6ft Power Cable SD-Base-4-05NA: 16.4ft Power Cable SD-Base-4-10NA : 32.8ft Power Cable

Data Reliability

Offline Data Caching During Network Outage	<ul style="list-style-type: none"> Stores up to 285,000 data samples Automatic retransmission of cache when communication is restored 	
Example: 50 Vibration Sensors with 1 BSV4	Collection Frequency	Days of Offline Storage
	1 minute	4 days
	10 minutes	40 days
	1 hour	238 days

Compatible Accessories

SD-MNT	Universal Mount (allows mounting to poles, walls, work benches, vehicles, etc.)
SD-MNT-MAG	Universal Mount, Magnet Variant



FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body. Changes or modifications not expressly approved by KCF Technologies could void the user's authority to operate the equipment.

INDUSTRY CANADA STATEMENT

The term IC before the Certification/Registration number only signifies that the Industry Canada technical specifications were met. This device complies with Industry Canada's license-exempt RSSs Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with the IC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body. FVIN 3.2.0