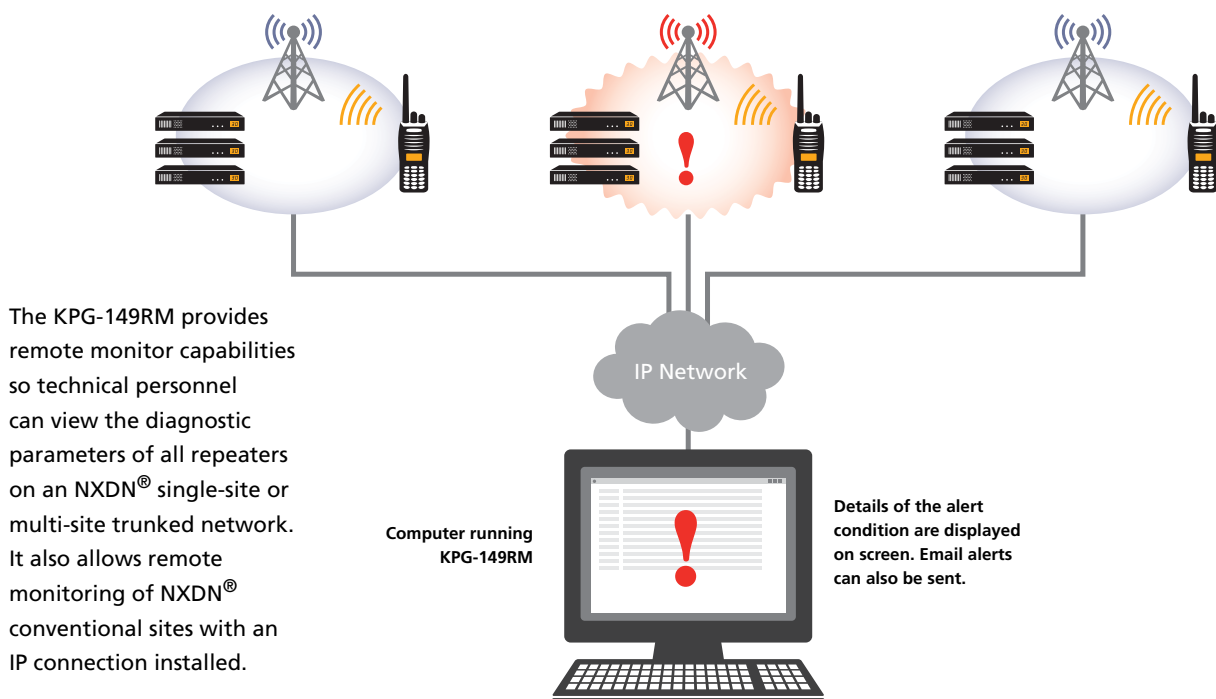


For NXR-700/800 & NXR-710/810

The KPG-149RM enables around-the-clock remote IP monitoring of all repeaters on an NXDN® single-site or multi-site trunked network and on NXDN® conventional IP networks. This software can alert supervisors and technical personnel of systemic problems or failures of any repeater at any site. Also the KPG-149RM can be set to sound a PC alarm and send multiple emails or SMS text messages upon receiving an alert. All events are recorded in a log file. Remote IP repeater monitoring helps prevent serious problems occurring and thus ensure that mission-critical communications remain uninterrupted.

Main Features

- **Monitored Parameters**
Technical personnel have access to detailed information on a repeater's status thanks to individual monitoring of power, temperature, fan, etc. The monitoring interval is adjustable.
- **Log Output**
Upon launch, the software creates a log file (CSV format) in a designated folder. A new log file is created for each session.
- **Alarm**
Optionally, when an alert condition is detected a PC alarm tone will sound. A customized alarm can be set up by specifying a user-supplied WAV audio file.
- **Email & SMS Text Alerts**
Provided with access to an SMTP mail server, the software can alert one or more personnel by email or text message.
- **Simple User Interface**
The main screen offers an intuitive tabbed organization for easy switching between Monitor and Log displays. Separate configuration screens facilitate the registering of new repeaters, email recipients, etc.



Items Monitored

Only items that are checked are subject to monitoring (at the specified interval). Current operating status is clearly displayed with either a green (normal) or red (alert) icon.

- Reception: Current Consumption (LNA) and PLL Lock Detection
- Transmission: PLL Lock Detection, Current Consumption (OCXO), Forward Power Level, RF Power Down Detection, and Current Consumption (HPA)
- Temperature: TX PCB Temperature and RX PCB Temperature
- Fan: Current Consumption
- Supplied Power Voltage: Supply Voltage Status
- Connection

Alert Setup

Reception

☒ Current Consumption (LNA)

☒ PLL Lock Detection

Temperature

☒ TX PCB Temperature

☒ RX PCB Temperature

Transmission

☒ PLL Lock Detection

☒ Current Consumption (OCXO)

☒ Forward Power Level

☒ RF Power Down Detection

☒ Current Consumption (HPA)

Fan

☒ Current Consumption (Fan)

Power Supply

☒ Supply Voltage Status

☒ Connection

OK

Cancel

Items		NXR-700/800/900	NXR-710/810
Reception	Current Consumption (LNA)	x*1	N/A
	PLL Lock Detection	x	x
Transmission	PLL Lock Detection	x	x
	Current Consumption (OCXO)	x	N/A
	Forward Power Level	x	N/A
	Power Down Detection	N/A	x
	Current Consumption (HPA)	x	N/A
TEMP	TX PCB Temperature	x	x
	RX PCB Temperature	x	N/A
FAN	Current Consumption (Fan)	x*2	N/A
Supplied Power Voltage	Supply Voltage Status	N/A	x
Connect		x	x

*1: Function is not available on the NXR-900.
*2: K type hardware only

Monitoring software display and log file

KPG-149RM

File Edit Monitor Setup About

Monitor Log

No.	Site Name	Channel Name	Connection	Reception	Transmission	Temperature	FAN	Power Supplied Voltage
1	Site 1	Channel 1						
2	Site 1	Channel 2						
3	Site 1	Channel 3						
4	Site 1	Channel 4						
5	Site 1	Channel 5						
6	Site 1	Channel 6						
7	Site 2	Channel 1						
8	Site 2	Channel 2						
9	Site 2	Channel 3						
10	Site 2	Channel 4						
11	Site 2	Channel 5						
12	Site 2	Channel 6						
13	Site 3	Channel 1						
14	Site 3	Channel 2						
15	Site 3	Channel 3						
16	Site 3	Channel 4						
17	Site 3	Channel 5						
18	Site 3	Channel 6						
19	Site 4	Channel 1						
20	Site 4	Channel 2						
21	Site 4	Channel 3						
22	Site 4	Channel 4						
23	Site 4	Channel 5						
24	Site 4	Channel 6						

Monitoring...

File Edit Monitor Setup About

Site

Site	Channel	Connection	Reception	Transmission	Temperature	FAN	Power Supplied Voltage	
1001	1001A	Site 1	Channel 1	OK	100	100	100	100
1002	1002A	Site 1	Channel 2	OK	100	100	100	100
1003	1003A	Site 1	Channel 3	OK	100	100	100	100
1004	1004A	Site 1	Channel 4	OK	100	100	100	100
1005	1005A	Site 1	Channel 5	OK	100	100	100	100
1006	1006A	Site 1	Channel 6	OK	100	100	100	100
1007	1007A	Site 2	Channel 1	OK	100	100	100	100
1008	1008A	Site 2	Channel 2	OK	100	100	100	100
1009	1009A	Site 2	Channel 3	OK	100	100	100	100
1010	1010A	Site 2	Channel 4	OK	100	100	100	100
1011	1011A	Site 2	Channel 5	OK	100	100	100	100
1012	1012A	Site 2	Channel 6	OK	100	100	100	100
1013	1013A	Site 3	Channel 1	OK	100	100	100	100
1014	1014A	Site 3	Channel 2	OK	100	100	100	100
1015	1015A	Site 3	Channel 3	OK	100	100	100	100
1016	1016A	Site 3	Channel 4	OK	100	100	100	100
1017	1017A	Site 3	Channel 5	OK	100	100	100	100
1018	1018A	Site 3	Channel 6	OK	100	100	100	100
1019	1019A	Site 4	Channel 1	OK	100	100	100	100
1020	1020A	Site 4	Channel 2	OK	100	100	100	100
1021	1021A	Site 4	Channel 3	OK	100	100	100	100
1022	1022A	Site 4	Channel 4	OK	100	100	100	100
1023	1023A	Site 4	Channel 5	OK	100	100	100	100
1024	1024A	Site 4	Channel 6	OK	100	100	100	100

Monitoring...

The monitoring software displays a green (normal) or red (alert) icon to show the operating condition. A gray icon indicates that no information can currently be retrieved. These details are recorded in a log file.

PC Software / Hardware Requirements

KPG-149RM	
Operating system	Microsoft® Windows® XP (32-bit) / Windows Vista® / Windows® 7
CPU	Intel® Pentium® III 1GHz or higher
RAM	256 MB or more
HDD free space	40MB or more (not including storage of log files)
LAN	10 Base-T or higher
Display	XGA (1024 x 768), more than 256 colors

Specifications are subject to change without notice due to advancements in technology.

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IMPORTANT! Please read the "Radio User Safety" information in the KPG-149RM package prior to using the KPG-149RM Repeater Monitor Software.

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