

# NHP Wireless Access Routers

Industrial remote access made easy

AUTOMATION SYSTEMS



**NHP**

Remote access devices that provide superior customer service, increase uptime and improve the productivity of your installations.



**Water**



**Food and Beverage**



**Agriculture**



**Material Handling**

# Industrial Remote Access Made Easy

At NHP we understand that gaining a competitive advantage relies on your ability to provide real value to customers in a market place that offers increasing choice.

Equipment that provides real time and readily available data is key to this and thanks to the range of NHP industrial remote access devices, this is now easier than ever before.

With the capability to identify and troubleshoot performance issues, and in many cases, before they occur, the NHP remote access range greatly reduces downtime and increases productivity.

In partnership with the Talk2M cloud-based connectivity service, these remote access devices can be the difference between success and failure for your customers. The remote diagnostic capability eliminates the need for major travel to fix minor issues.

From utilities, food and beverage, agriculture, water and waste water to any other plant application that requires fast data acquisition anywhere and anytime, ensure you're ahead of the competition with NHP.



## NHP Industrial Remote Access Devices



### Cosy

The Cosy (**CO**munication made **eaSY**) is an industrial VPN router designed to offer easy remote access, across the Internet, to machines and installations on customer sites or in the field. With the Cosy you can troubleshoot machines remotely without going on site, drastically reducing support costs.



### Flexy and Extension Cards

The Flexy is an industrial modular machine-to-machine (M2M) router and data gateway designed for data monitoring, alarming (SMS and email) and data collection. The Flexy provides the capability to communicate universally with the most varied field equipment, regardless of the protocol used. This is increasingly important in an environment where communication technologies are constantly changing.



### Talk2M Software

Talk2M is the first secure industrial connectivity service in the cloud. With servers spread out all over the world, Talk2M offers a highly reliable, efficient and secure solution for connecting to machines remotely. Talk2M gathers thousands of accounts and manages thousands of connections per day including full audit trail connection tracking.



Features	COSY131N1	FLEXY201N
4x 10/100Mb Configurable LAN/WAN	✓	✓
Integrated 3G/GPRS-EDGE Uplink	✓	✓ (via expansion module)
I/O ports (Input/Output)	2DI/1DO	1DI/1DO (additional I/Os available via expansion modules)
RS232/422/485 port	-	✓ (via expansions modules)
Remote data collection	-	✓
SMS and alarm relay	-	✓ (via expansion module)
Modular	-	✓
Power Feed 12-24V DC	✓	✓
DIN mountable	✓	✓



Cosy131N1

## Cosy Industrial VPN Router

The Cosy is an industrial remote access router that is designed to offer easy remote access, across the Internet, to machines and installations at customer sites or in the field. With Cosy, OEMs and System Integrators can troubleshoot machines, debug the PLC program, upload projects, gain remote use of a HMI or an IP camera, without going on site, drastically reducing support costs. The Cosy lets maintenance engineers establish a secure VPN connection from the machine to anywhere via Talk2M, cloud-based remote connectivity solution. The router seamlessly communicates on the local area network with the PLC and the HMI, and allows remote connection from anywhere with a simple laptop, tablet or smartphone. Cosy and Talk2M make working securely across the Internet easy, so the user does not need to be an IT expert to take advantage of it.



### Easy to Set up and Use

Connect any Ethernet devices without the need to configure the gateway. No need to stop the machine while configuring the device.

1

An outbound connection is established to the Talk2M Server

2

eCatcher is used to login and connect to your remote devices

3

A secure VPN tunnel is created giving full access to your equipment



### Firewall Friendly Outbound Connection

Outbound Internet connection across the factory LAN using port 443 (HTTPS) or UDP 1194. Easy to set up with no firewall issues and only access to the machine. No access to the factory LAN.



### Cellular Connectivity

A cellular modem allows internet connectivity while avoiding connection on the factory/ corporate LAN network. The Cosy offers free access, high bandwidth, easy deployment (no cabling) and facilitate security network management.



### Secure VPN Connectivity

Fully secure SSL-based VPN tunnel. The information exchanged during the communication is encrypted (SSL - 2048-bit keys) and only authenticated users can connect to the Cosy.



### Customer Acceptance

VPN access can be controlled with external key switch. All connections are tracked in a report.



### LAN Firewalling

Control which devices connected to the NHP's LAN are accessible.

Ordering information

Cat no.	Description
<b>COSY131N1</b>	COSY REMOTE ACCESS CELLULAR GATEWAY
Accessories Cat no.	Description
<b>HSP-ANT01-3M</b>	ANTENNA 3G 5DBI SMA MAGNETIC BASE 824-2170MHZ



FLEXY201N

## Flexy Modular VPN Router

The Flexy is a modular industrial M2M router designed to provide a low-cost solution for large deployments. The Flexy includes routing and gateway capabilities between WAN, LAN and RS232/422/485 field bus. The Flexy also provides data monitoring, alarming (SMS and email) and data collection.

### Why choose Flexy



#### Web-based Configuration

All the data services are easily set up by web page configuration. No external software or programming tools are required to configure and build your Flexy solution. You can set up alarming, data logging and data retrieval by HTTPS.



#### Secure VPN Remote Access

The Flexy embeds VPN capabilities and compatibility with Talk2M. This allows highly secure remote access for remote monitoring, troubleshooting and application tuning.

The Flexy 20x adds routing capabilities that allows remote access to any serial or Ethernet devices behind the Flexy. It enables PLC remote maintenance, remote IP camera, remote HMI monitoring, etc.



#### Data Acquisition

The Flexy is able to perform local data acquisition using the serial or Ethernet port. The data acquisition process is built around a tagged database in which each tag is associated with an I/O server. The Flexy is able to perform data acquisition with the following protocols: Modbus RTU, Modbus TCP, Uni-Telway, EtherNet/IP, DF1, FINS TCP, FINS Hostlink, ISO TCP, PPI, MPI, Profibus, Mitsubishi FX, Hitachi EH, ASCII.



#### Data Services

The Flexy is a data gateway allowing you to monitor and collect your data. Whether you need alarm management and notification, data logging and retrieval, the integration of web server to generate an HMI, the Flexy will allow you to manage your data the best way. The Flexy is even programmable.



#### Alarm Management and Notification

The Flexy provides full support for alarm triggering, acknowledgment, status and traceability. Alarm thresholds (4x) and parameters (activation delay, deadband value) can be set on every tagname. The complete alarm cycle (ALM, RTN-return to Normal, ACKnowledgment, END) is traced and available for monitoring and analysis. Alarm notification can be performed by email, SMS, SNMP trap and/or put FTP.



#### Data Logging and Retrieval

Continuous data logging and buffering can be performed on every tagname. Each tagname can be logged on fixed interval or on change (with deadband). The Flexy stores tag data values (+timestamp) in its internal database (up to 1,000,000 time stamped points) for statistical analysis and later review (historical logging) or to analyze recent trends (real-time logging). The datalogging files can be easily retrieved by FTP, HTTP or as an e-mail attachment.



#### Firewall Friendly

The Flexy uses an outbound connection across the factory LAN (HTTPS port 443 or UDP 1194). No IT/firewall changes are needed to establish communication. A key asset that your IT team will appreciate!



### High Security

All connections run through industry standard VPN protocols to guarantee a safe and secure connection that prevents network intrusions.



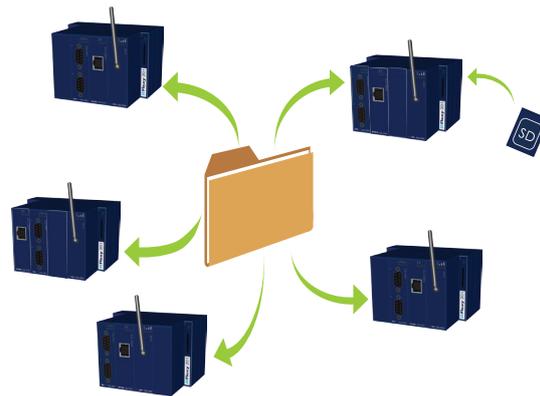
### Modular Router

The Flexy is a modular router. Thanks to a selection of base modules and extension cards, you will be able to connect to a wide range of industrial devices. The modularity also allows you to keep up with the evolution of communication technology. With the addition or replacement of an extension card you can adapt to changes in your application while protecting your initial investment.



### Easy Development

All configuration and application parameters are available in a text file that allows centralised device management. The Flexy can be remotely updated by remote file swap or local SD card upload.



### Programmable

The Flexy can be fully scripted using BASIC scripting language or JAVA to design simple to sophisticated automated tasks such as:

- Reading and writing data via the serial port for industrial devices with proprietary protocols
- Sending e-mail messages; uploading and downloading FTP files
- Replying to incoming SMS messages
- Managing TCP/IP routing tables and features
- Dynamically updating the NHP unit configuration

JAVA and BASIC script are intended to be used for deploying large applications, since this provides flexibility and scalability.

Ordering information

Cat no.	Description
<b>FLEXY201N</b>	FLEXY 201 ROUTER FUNCTION 4X10/100MB ETHERNET
Accessories Cat no.	Description
<b>HSP-ANT01-3M</b>	ANTENNA 3G 5DBI SMA MAGNETIC BASE 824-2170MHZ

## Flexy Extension Cards

The Flexy is equipped with extensions cards allowing you to keep up with the evolution of communication technologies while protecting your investment in the device. The Flexy concept allows you to upgrade easily to new technology and is able to connect to a wide range of industrial devices. The available extension cards allow a wide range of field interfaces (RS232, RS485, RS422, Ethernet, 3G cellular gateway) supporting numerous industrial protocols.

Base module



FLEXY201N

Extension cards



FLA3301N



FLX3101N



FLB3202N

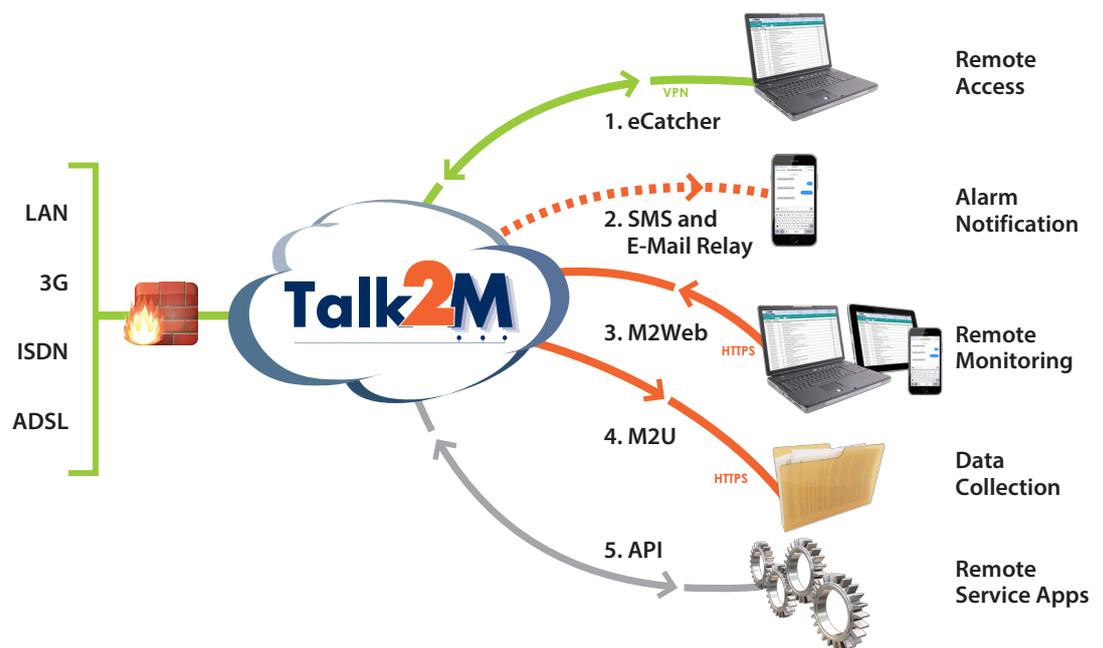
Ordering information

Cat no.	Description
FLB3202N	FLEXY CARD B TYPE 3G PENTABAND MODEM
FLX3101N	FLEXY CARD X TYPE WAN 10/100MB ETHERNET
FLA3301N	DUAL SERIAL PORTS 1x RS232/422/485 SERIAL PORT 1x RS232 SERIAL PORT



# Talk2M - The Free Connectivity Cloud Solution

Talk2M offers secure industrial connectivity service in the cloud. With servers spread out all over the world, Talk2M offers a highly reliable, efficient and secure solution for connecting to machines remotely. Talk2M gathers thousands of accounts and manages thousands of connections per day including full audit trail connection tracking.



## 1. Ecatcher - Remote Access "On-Demand"

Secure VPN connection to reach any serial or Ethernet devices: upload projects, gain remote use of a HMI, debug the PLC program and, if necessary, download new settings or program.

## 2. SMS and E-Mail Relay

Add E-Mail and text messaging capabilities to your PLC and machines. From now on, you can receive alerts by SMS and receive E-Mails via Talk2M's SMTP server.

## 3. M2WEB-Remote Monitoring

Secure mobile web access from your iPad, iPhone or any Android device.

## 4. M2U-Remote Data Collectin in Push Mode

Secure HTTPS link to retrieve data

## 5. M2WEB HTTPS API

Allows stateless HTTPS requests to the remote device connected to Talk2M. The M2Web HTTPS API allows to:

- Send commands to a remote site
- Design mobile Apps for remote monitoring
- Access remote web services
- Gather data from remote site



## Select Your Talk2M Service

Choose between our Talk2M FREE+ solution and our Talk2M PRO version according to your needs.

	Talk2M Services	
	Free+	Pro
Unlimited no. of machines	✓	✓
Unlimited no. of users	✓	✓
No. of concurrent eCatcher connections	1	3
No. of M2Web session	3	Unlimited
Data traffic per month	1 GB	6 GB
Connection reporting	✓	✓
M2U for data collection (push)	✓	✓
SLA (99,6% availability, 4hr. max. consecutive downtime)	-	✓
Wake-up/Alarm SMS per month	-	50
Advanced Access control	-	✓
Pricing	Free	Yearly fee Part number: SATAGRE01
<i>Additional traffic, SMS, Concurrent connections</i>	N/A	<i>Contact 1300 NHP NHP</i>



## WE'RE EASY TO DO BUSINESS WITH

At NHP we're solely committed to serving the needs of our customers in the industrial electrical industry. From concept design through to installation and after sales service, we are confident we have the experience and expertise to exceed your expectations and ensure you get the best result for your project. How? By combining Partnerships, Agility, Knowledge and Scalability, NHP can offer 100% Australian owned service that forms the ultimate choice in our industry.

### **PARTNERSHIPS:**

When you choose NHP you gain a valuable industry partner. You gain access to an exclusive network of quality global suppliers who, together with NHP, can achieve an engineered solution for your industrial electrical application. A partnership with NHP promises to last, working together with you to offer complete trust, assurance and peace of mind.

### **SCALABILITY:**

With all the scale of a large multi-national company, NHP maintain a premium level of customer service and attention to detail no matter how big or small your project. With over 900+ expert staff in over 50+ branch and regional locations, when you deal with NHP you receive all of this combined knowledge and expertise delivered by local people with a local focus, backed by global suppliers.

### **KNOWLEDGE:**

If your industrial electrical application demands a specialist team of trained project management, design and engineering professionals, then NHP is the ultimate choice, bringing together over 40 years of electrical industry experience and knowledge.

### **AGILITY:**

At NHP we understand your project needs and know that these needs can often change throughout the life cycle of a project. With a seamless combination of local and technical support backed by around the clock service and local stock, NHP has the agility to provide real time solutions where and when you need them.



For more information, scan to download the NHP eCatalogues App offering exclusive video content, catalogues and literature!

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