

# BRODERSEN

simplifying process

## Serial and I/O Data Radios



**Series 3000 Data Radio**



## Transparent Serial Data Communication

If you require wireless communication between your SCADA system, remote RTUs and PLCs, Brodersen's Radio modules is an obvious choice. Our radio modules support most industrial serial communication protocols such as ModbusRTU, Modnet-1F, 3964R, ASCII, transparent data transfer and IEC60870. Our radio modules are based on an open platform and have been integrated into networks involving control equipment manufactured by Siemens, ABB, Nais-Matsushita-Panasonic, Moeller and Saia to name a few.

## Intelligent Communication Master Radio

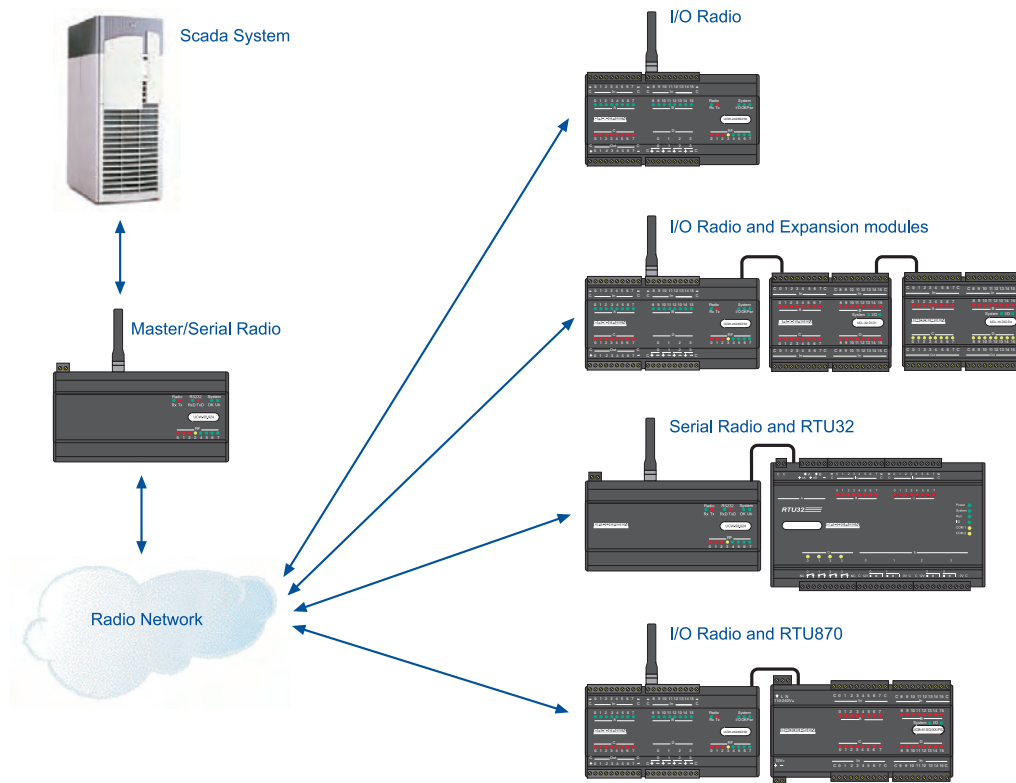
The Brodersen Communication Master can easily handle a complete radio system including I/O radios. It includes a complete data base accessible via standard Modbus. The database directly reflects the complete radio system and is easy to configure. In addition, the Communication Master Radio manages repeater handling as all serial and I/O radios support repeater functions. In fact, you can set-up any radio to be a repeater for one or more radios. This makes the Brodersen radios suitable for daisy-chain applications such as pipeline monitoring and long distance applications.

## I/O Radio Modules

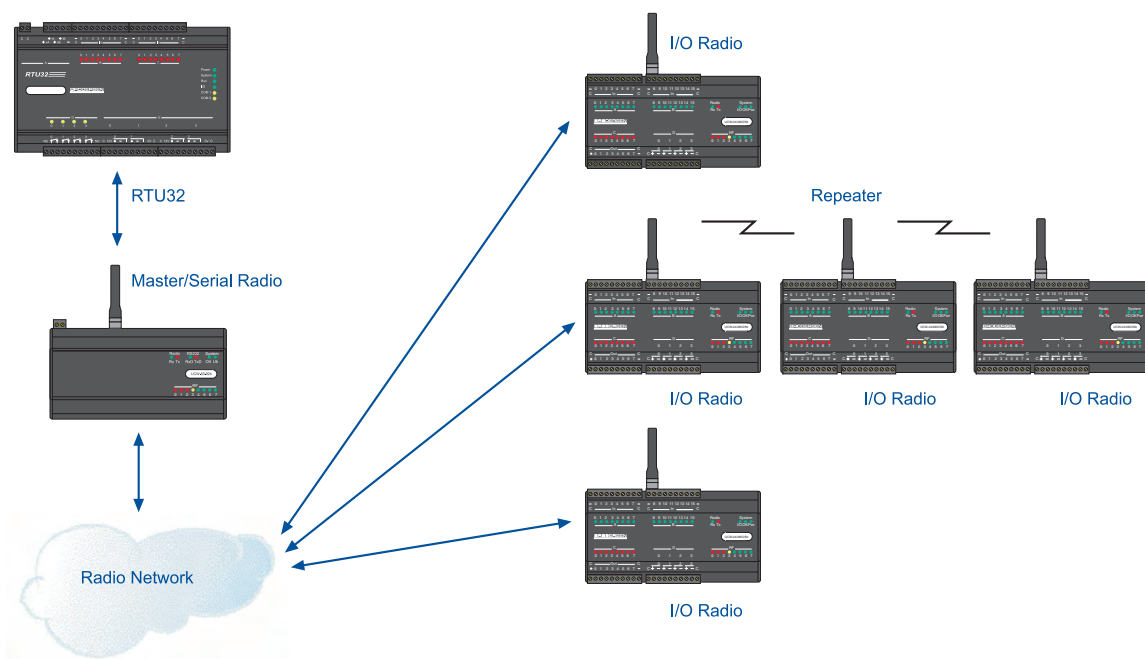
Brodersen's I/O Radio Modules Series feature electrically isolated on-off and analogue I/Os. The standard version has 16 on-off inputs, 8 on-off outputs, 4 analogue inputs with 12-bit resolution, 8 event counters and 8 time totalisers. Up to 16 expansion modules, each with multiple I/O, can be added to a radio RTU base module, to implement flexible on-off and analogue I/O configurations.



## Example of a Radio Network with a mix of I/O Radios and RTUs/PLCs and with local control and monitoring



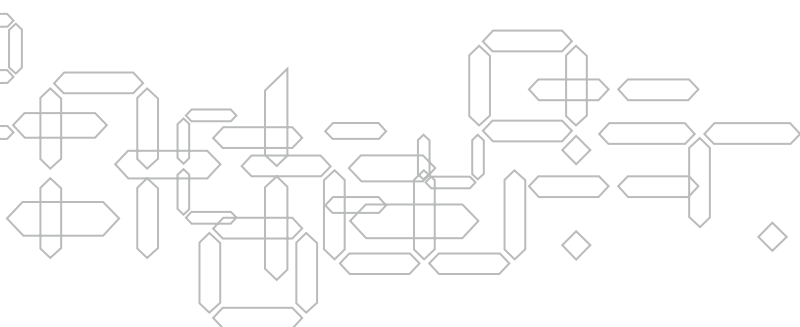
## Example of an RTU or PLC Radio Network based on Master Station



## Overview of Data Radios

	RF Band	RF Output [W]	Power Supply [VDC]	I/O Serial	Comments Interface
<b>UCW-50</b>	ISM-band	0.1 to 0.5	12 to 24	RS232, RS485	3694R, Modbus, IEC870, various communication protocols.
<b>UCW-xxIO/50</b>	ISM-band	0.1 to 0.5	12 to 24	16DI, 8DO, 4AI	ModbusRTU protocol, expandable I/O.
<b>UCW-50/M32</b>	ISM-band	0.1 to 0.5	12 to 24	Flexible I/O	I/O mirroring for up to 32 remote configuring stations.
<b>UCW-50/M64</b>	ISM-band	0.1 to 0.5	12 to 24	RS232, RS485	Modbus server station.
<b>UCW-600</b>	410-470 Mhz	0.1 to 6	12 to 24	RS232, RS485	Master/slave unit with LED field strength display, various communication protocols.
<b>UCW-xxIO/600</b>	410-470 Mhz	0.1 to 6	12 to 24	16DI, 8DO, 4AI	Radio repeater function, LED field strength display, expandable I/O.
<b>UCW-600/M32</b>	410-470 Mhz	0.1 to 6	12 to 24	Flexible I/O	I/O mirroring for up to 32 remote stations. LED field strength display.
<b>UCW-600/M64</b>	410-470 Mhz	0.1 to 6	12 to 24	RS232, RS485	Modbus server station.

This table lists our standard products with various features. If other features, such as protocols, other functions or radio frequencies (i.e. for international applications) are required please contact us for further information.



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