

Octo IP RDS Server and Router

The professional way to manage your RDS Network



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Port	Type	In/Out/Drop	Host	UECP	Prog...	[Queue] Out/In/Drop	Label
<input checked="" type="checkbox"/> 192.168.14.58 -> 0	GPI/O	0/4/0	<input checked="" type="checkbox"/> 192.1.1.1:6666	0041	DR1	[0] 44252/88325/0	Coder1
<input checked="" type="checkbox"/> 8001	UECP	0/264578/13	<input checked="" type="checkbox"/> 192.1.1.2:6666	0042	DR2	[0] 44104/88201/0	Coder2
<input checked="" type="checkbox"/> 8002	UECP	0/167/0	<input checked="" type="checkbox"/> 192.1.1.3:6666	0043	DR3	[0] 44104/88203/0	Coder3
<input checked="" type="checkbox"/> 8003	UECP		<input checked="" type="checkbox"/> 192.1.1.4:6666	0044	DR4	[0] 44105/88205/0	Coder4
<input checked="" type="checkbox"/> Testqueue	MMQ	0/5/0	<input checked="" type="checkbox"/> 192.1.1.8:6666	0048	DR5	[0] 88205/176409/0	SpareCoder
<input checked="" type="checkbox"/> 192.168.14.58 -> 1	GPI/O	0/2/0					
<input checked="" type="checkbox"/> 8007	UECP						

Professional RDS Network management

- ▶ Centralization of all RDS data streams
- ▶ Full multiplexing and routing from any input to different outputs
- ▶ Routing the input traffic via UECP, GPI's Microsoft Message Queues or IP addresses to the outputs
- ▶ Redundant GPI/O hardware support
- ▶ Transmit station support with spare encoders for failsafe operation
- ▶ Log function – confirmation and monitoring of all input and output traffic
- ▶ Optional: RDS Encoder Check:
 - Automated reinitialization of encoders in case of problems
 - Network alarm control in case of failures (SNMP)
 - Heart beat – alive function for encoder control

Input Property

Data

Label:

Protocol:

Port:

MMQ Name:

GPI/O 1: GPI/O #:

GPI/O 2:

GPI/O 1: Not tested - GPI/O 2: Not tested

GP I/O TA Notification

Output	PSN	TP	
192.1.1.1	4	1	<input type="button" value="Add"/>
192.1.1.2	4	1	
192.1.1.3	4	1	<input type="button" value="Delete"/>

Routing

UECP Address

Program Name

Static Program



Octo, RDS Data Multiplexing Solution for RDS Networks

Reliable and efficient, unique quality control and more

OCTO IP is a versatile router allowing multiple different kinds of inputs to be routed to your network of RDS encoders over TCP/IP.

It provides a convenient way to have your complete network situation under control at a glance. The router is also targeted to run in failsafe environments as a service, fitting in many reliable infrastructures demanded by broadcasters.

- ▶ Runs on the latest Microsoft operating systems, and also runs in Virtual Machine
- ▶ Centralization of inputs and outputs of the RDS data streams
- ▶ Support of multiple protocols like newest UECP specification, handling of GPI/Os and different kinds of Microsoft Message Queues
- ▶ Redundant GPI/O hardware support
- ▶ Transmit station support with spare encoders for failsafe operation
- ▶ Allows easy routing from inputs to outputs by defining human readable names for sets of encoders
- ▶ Comprehensive logging for all types of protocols, special treatment of Traffic Announcements and Emergency Warnings over PTY31
- ▶ Optional: RDS Encoder Check:
 - Alive Check of the complete network
 - Unattended self-healing possible in case of difficulties
 - SNMP alarm support for fast signalling of network problems



Product highlights

Input

- ▶ OCTO is designed to read several data formats like UECP and XML
- ▶ Input data can be transmitted via TCP/IP or via GPI (General Purpose Interface)

Output

- ▶ Setting TA driven GPO's
- ▶ Encoder updates carried out remotely
- ▶ The output to the entire Encoder Network can be either UECP or TEC or both at the same time. The quantity of the data stream output is time controlled to harmonize the on-air data to a constant data flow
- ▶ The data output can be routed to devices with serial TCP/IP connections

Addressing

- ▶ Data access and total control over the whole network from one central location
- ▶ Able to address individual Encoders or Encoder groups

Routing

- ▶ Dynamic routing of the input data via UECP-Addresses or TCP/IP addresses
- ▶ Full control of the data through various filter rules and flexible alarm settings

Alerts

- ▶ Forwarding encoder failure alerts automatically to the central location and the service technician
- ▶ Timeout for incoming data, errors of incoming data, too many frames in outgoing queue, etc.
- ▶ MEC filter & pass for exact control of incoming data
- ▶ Advanced statistical & bookkeeping facilities
- ▶ Time (UTC) insertion via UECP

Log files

- ▶ The software can be adjusted by options and filters in many ways; by various log files the system can be controlled and managed easily
- ▶ Detailed log files for incoming and outgoing data
- ▶ Statistic data (Counting of all RDS-Groups)



OCTO IP RDS Server and Router Structure

