

ENGLISH

oratis

Digital Radio Communication

NEW

The art of wireless communication

The combination of **DELEC's oratis** components and Kenwood's NEXEDGE® radio systems form a unique and versatile communication system. It allows individual addressing of every communication member from either side.

- + leading-edge technology
- + perfect for broadcast and control centre applications
- + highest reliability
- + maximum cost efficiency
- + maximum packing density
- + individually scalable
- + safe investment due to networking
- + future proofed with audio over IP
- + exceptional speech intelligibility
- + easy to use

KENWOOD

DELEC
MADE BY EXPERTS

DELEC and Kenwood – A digital symbiosis

The *oratis* radio interface RIF1 and RIF2 interfaces wired DELEC communication technology with Kenwood radio systems. The AES3 connection combines both digital audio and control in a single cable. Our control interface allows direct addressing of up to 63 individual calls and up to 189 group calls per mobile radio.

Both individual and group calls can originate from a **DELEC** station or any Kenwood portable radio. The unique reply function simplifies operation in the field, allowing for a single push answer with an adjustable time window. In addition there are numerous other features of the Kenwood NEXEDGE® technology at your disposal.

oratis Radio Interfaces:



Features RIF1

- accommodates one Kenwood mobile radio NX-800E (UHF) or NX-700E (VHF)
- for simplex operation mode (continuous RX-Mode or continuous TX-Mode), or
- for half duplex operation mode (alternating RX/TX mode)
- supports continuous transmitting

Features RIF2

- accommodates two Kenwood mobile radios NX-800E (UHF) or NX-700E (VHF)
- for dual simplex operation
- for dual half duplex operation mode
- for full duplex operation mode (one base in continuous RX- and one in TX-Mode)
- supports continuous transmitting



	RIF1	RIF2
Transmitting power	1-25 Watts	2x 1-25 Watts
Operation modes	simplex, half duplex	2x simplex, 2x half duplex, 1x full duplex
Size	19"/2RU, depth 375 mm	
Weight	8,3 kg	8,6 kg
Antenna connector	1x N-connector	2x N-connector
Audio interface incl. control data	AES3	

Maximum performance due to joined functionality

Combining the products of two global players in the communications business leads to a system with outstanding features and unique capabilities.

The heart of the system is a full summing digital audio router - available in different sizes. All models of communication nodes can be optionally expanded with an Audio-over-IP DANTE™ interface or can be linked with other **oratis** components. The radio interfaces RIF1 and RIF2 are connected to the bidirectional 2-channel AES3 ports of the communication node with a standard CAT5 network cable. Depending on the application and the total system size you can choose between following products:

- **oratis compact** CS 0800
for up to 8 radio interfaces or subscriber panels
- **oratis compact** CS 1212
for up to 12 radio interfaces or subscriber panels and 12 analogue four-wires
- **oratis compact** CS 1624
for up to 16 radio interfaces or subscriber panels and 24 analogue four-wires
- **oratis** Matrix-Frame MF4
for up to 4096 radio interfaces, subscriber panels or four-wires

NEXEDGE® Handheld Radios:

NX-200E (VHF) / NX-300E (UHF)
NEXEDGE® Digital/Analogue
Portable Radio
with keypad



NX-220E (VHF) / NX-320E (UHF)
NEXEDGE® Digital/Analogue
Compact Portable Radio
with keypad



NX-200E3 (VHF) / NX-300E4 (UHF)
NEXEDGE® Digital/Analogue
Portable Radio
with 6 keys



All NEXEDGE® compatible portable radios are supported.
For more Kenwood accessories visit: www.kenwood.eu/products/comm/accessories/

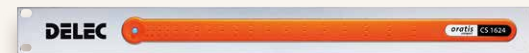
Features

- digital speech with natural sound
- greater range than analogue mobile radio
- many groups and individual calls with up to 65000 IDs possible
- efficient spectrum use with 6.25 kHz channel spacing
- alias ID is automatically displayed
- extensive emergency functions
- remote function allows disabling of stolen or compromised devices
- status check

oratis Communication Nodes:



oratis compact CS 0800



oratis compact CS 1212 or CS 1624



Matrix Frame MF4

Features Communication Nodes

- fully summing audio matrix, non-blocking
- professional audio quality, compliant to broadcast standard (48kHz / 24 Bit)
- freely configurable via ethernet
- optionally extendable by a DANTE™ interface
- redundant power supply

oratis Subscriber Units:



Features* Subscriber Units

- coloured display lights
- 18 characters per key
- individual display and volume adjustment for each crosspoint
- 2 high quality microphone ports with phantom power (Lite: one mic port)
- external speaker port (Lite: not available)
- 4 layers per key
- up to 7 key extensions per subscriber unit
- 2 bi-directional audio channels to the Matrix Frame, via a standard AES3 interface
- removable microphone
- internal audio matrix (Lite: not available)

*Features of the Lite versions in brackets

Type	Size	Subscriber Buttons	Headset Interface	Auxiliary Analogue	Auxiliary AES3	Matrix-Interface	GPI
Talk 12X	19"/1 RU	12	2	2 Ch In 2 Ch Out	2 Ch In 2 Ch Out	AES/EBU, Coax Analogue, RS232	3 In / 4 Out
Talk 12LX	19"/1 RU	12	1	-	-	AES3, Coax	3 In / 4 Out
Key 16X	19"/1 RU	16	-	-	-	-	-
Talk 16	19"/1 RU	16	2	2 Ch In 2 Ch Out	2 Ch In 2 Ch Out	AES3, Coax Analogue, RS232	3 In / 4 Out
Talk 16L	19"/1 RU	16	1	-	-	AES3, Coax	3 In / 4 Out
Key 16	19"/1 RU	16	-	-	-	-	-
Desk 16	Desktop Subscriber Panel	16	2	2 Ch In 2 Ch Out	2 Ch In 2 Ch Out	AES3, Coax Analog, RS232	3 In / 4 Out
Desk 16L	Desktop Subscriber Panel	16	1	-	-	AES3, Coax	3 In / 4 Out

Block diagram

