



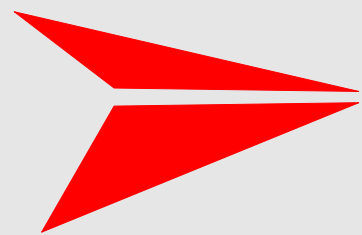
# Emergency telephone for road tunnels

Catena **DUETTO VoIP G4** is an IP based Emergency Telephone specially designed for use in **road tunnels**.

Duetto VoIP G4 meets all requirements from **Norwegian Public Roads Authority** with regards to ruggedness, public use, speech quality, status monitoring and self test.



# DUETTO VoIP G4



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# Catena DUETTO VoIP

**DUETTO G4** is a rugged, dust and waterproof emergency telephone, made especially for road tunnels according to requirement from the public roads authority in Norway. Handset is manufactured from rubber, with stainless steel armored cord between handset and phone.

**DUETTO G4** has in addition advanced options for self test where the vital parts are continuously monitored. **Self test** includes connection and **registration** to PBX, **acoustic** test of handset and acoustic test of signal loudspeaker.

**Status** of telephone is also shown with **green status LED** at front, **easy** to see.

Self test and status LED are **online** and will detect and show any failure **immediately** as soon as the fault has been detected by phone.

Phone **status** and **hook** detection is available as **relay outputs** at DB9 port and DB9-Screw Terminal adapter.

All emergency phones are delivered with 4-language user guide at front. Norwegian, English, French and German; other languages on request.

**Duetto VoIP Emergency** phone has been installed in Norwegian road tunnels since 2015 as **complete systems** with emergency phones, phones for technical rooms and PBX.



Rear connections (flush mount)



Rear service display (flush mount)



DB9-Screw Terminal adaptor for DIN Rail Mount

## Technical information:

Housing material:	Aluminium, yellow.
Handset material:	Rubber, black.
Handset cable:	EN 1.4404 Stainless steel, 200Kg pull force, length 70cm.
Weight:	1.7Kg or 3.8kg (flush mount or surface mount).
Size:	Flush mount: 315x190x105mm (hxbxd including handset, 65mm inside). Surface mount: 330x205x120mm (hxbxd including handset).
Mounting:	Flush mount: 6 pc. M6 Torx 30 A4 Quality with center tap. Surface mount: From behind with 4 pc. M8x12 screws (through door or mounting bracket). Option: Extension frame. Increases inner space behind phone with 20mm (flush mount).
Water/dust proof:	Flush mount: IP65 (towards the public). Surface mount: IP65.
Temperature (operation):	-40°C til +70°C.
Power:	PoE or 9-24VDC.
Power consumption:	Max. 2W during normal operation.
Interface to local network:	2xRJ45 contacts, WAN for local network and LAN for service PC (flush).
Interface to PLC:	1xDB9 contact (relay contacts for status).
Status LED:	Green LED at front.
Marking:	4-language user guide at front, address at rear side.
Speech quality:	STI>0.9, tested as a system with emergency phone, pbx and service telephone. Test performed by 3rd party lab according to IEC 60268-16, methode "STI" (Section 4.2 Appendix A). Adjustable speech and side tone level.

## Part number

Description	Operation	Part #	Mount	Local management/test
Catena DUETTO VoIP Flush G4	Handset (Hotline)	VoiP-D-1001-G4-PoE	Flush	Handset, loudspeaker, connection to PBX, loss of power. DB9 and status LED.
Catena DUETTO VoIP Box G3	Handset (Hotline)	VoiP-D-1002-G3-PoE	Surface	Connection to PBX, loss of power. DB9.
Catena DUETTO VoIP Box Key G3	Keypad	VoiP-D-1003-G3-PoE	Surface	Connection to PBX, loss of power. DB9.
Catena DUETTO VoIP Extension frame		MR1-Duetto		