



#### 1008431000

# CRM-V-2

### IP Flush Master Station

- Robust aluminium front plate
- Four dynamic navigation keys and four DAK keys for quick access to system menus and directory
- White light behind all keys for excellent readability in dark environments
- Optional noise cancelling goose-neck microphone
- Optional handset unit
- Optional IP DAK-48 Unit
- ONVIF Compatible
- Integrated data switch with advanced networking and security functions
- Superb audio quality high bandwidth codec, active noise cancellation, acoustic echo cancellation and high output power amplifier
- Clean relay output contact for control of external equipment



Control Room Solutions IC-Edge ICX ICX-AlphaCom IIII Automatic Gain Control III Active Noise Cancelling











Open Duplex

## Description

The CRM-V-2 IP Flush Master with Display is an IP control room intercom intended for use in control and guard rooms. The station features a large high contrast display with adjustable backlight and up to 8 lines with 20 characters. The station has four direct access keys. Each key has a red and a green LED to show status.

The IP station supports open standards and is compatible with ICX-AlphaCom, IC-EDGE and iPBXs using SIP technology. When working in ICX-AlphaCom mode, the IP station supports special services only available using the CCoIP protocol, as employed by the AlphaCom server. Examples of services are emergency broadcast with volume override, CCTV integration, call priority, and AlphaNet multisite networking and event scripting.

Like all Zenitel stations, the CRM-V-2 features superb audio quality. This is enabled through a set of advanced technologies such as active noise filtering, acoustic echo cancellation, wide band audio codec, and high power audio outputs. The IP station has an integrated managed data switch providing advanced networking and security features. The integrated switch provides support for:

- Protection from unwanted access
- Quality of Service (QoS) by managing data traffic
- Cost efficient installation by providing shared network connections

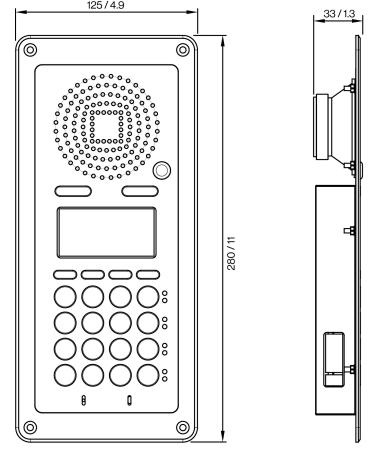
To provide maximum availability the station comes with advanced supervision functions. The station line test will detect if there is any faults in the network or station electronics. In addition the station supports tone test, testing the complete transmission path including microphone and speaker. The status of the stations is reported to AlphaWeb as well as to 3rd party management systems using SNMP, Syslog or OPC.

In IC-EDGE mode, the CRM-V-2 can be configured as the Edge Controller.

See also: additional documentation on wiki.zenitel.com

### **Technical Dimensions**

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All dimensions in mm / in

# **Specifications**

### **GENERAL**

Weight         0.63 kg           Temperature Range         -15°C to + 50°C           Relative humidity         < 95% not condensing           User interface         Backlitt graphical display, 35 mm x 68 mm, 4 function keys, 4 programmable direct access keys (DAK, Green/Red status, LED per DAK, Full keypad, Call indication LED           Power         Power over Ethernet, IEEE 802.3 a- 1, Class 0, Local power 19 – 27 vDC, Idle 4W, max, 8W           Connectors         FLAS (Ethernet) – R111 (Handset & Heades), Pluggable screw termins (IV Colo alpower)           Remote control Max, switching capacity, Max, voltage relay, Max voltage voltage, Voltag	Dimensions (WxHxD)	125 x 280 x 33 mm
Temperature Range -15°C to +50°C  Relative humidity < 55% not condensing  Backlit graphical display, 35 mm x 68 mm, 4 humidine keys, 4 programmable direct access keys (DAK), Greenfed status, LED per DAK, Full keypad, Call indication LED  Power		
Relative humidity < 95% not condensing  Backlit graphical display, 35 mm x 68 mm, 4 hunchon keys, 4 programmable direct access keys (DAS), Green Red status. LED per DAK, Full keypad, Call indication LED  Power over Ethernet, IEEE 802.3 a- 1, Class 0, Local power 19 – 27 VDC, Ide AW, max. RW  Connectors Reduction of the state of		
Backit graphical display, 35 mm x 68 mm, 4 function keys, 4 programmable direct access keys (DAK), Green/Red status, LED per DAK, Full keyad, Call indication LED Power over Ethernet, IEEE 802.3 a. f. Class O. Local power 19 – 27 vDC, Iclas VD, Ic		
User interface	Relative humidity	< 95% not condensing
Connectors   Connectors   Part (Ethernet) - Part (Handset & Headset), Pluggable screw terminals (I/O local power)	User interface	68 mm, 4 function keys, 4 programmable direct access keys (DAK), Green/Red status, LED per DAK, Full keypad, Call indication
Connectors         Headsell, Plugable screw terminals (I/O local power)           Remote control Max. switching capacity. Max. voltage relay. Max one logical output, 30W DC, 60V our ent relay         3 digital impats, 1 relay output and one logical output, 30W DC, 60V our ent relay           SIP         2833 (DTMF)           IP protocols         IP 4 - TCP - UDP - HTTPS - TFTP - TFTP - TFTP - TFTP - TFTP - TTP - TCP - DHCP - SNMP - DHESen - TOS - ONVIF - CO-IP® - SIP - RSTP           LAN protocols         Power over Ethernet (IEEE 802.3 a- 1), VLAN (IEEE 802.1 pq), Network Access Control (IEEE 802.1s)           Audio technology         Telephony 3.4kHz (G.711), Wideband/HD Voice (G.722), Active noise filtering, Acoustic echo cancellation, Open duplex, Volume override           Audio output         1.5 Watt - 75 dB @ 1 m from speaker, additional connector for external speaker, max 5 W           Management and operation         HTTPS (Web configuration), DHCP and static IP, Remote automatic software upgrade, Centralized monitoring, Status LED           Advanced features         Dual port managed data switch supporting VLAN and network access control           Compliance         CE and FCC Part 15           IP Rating         IP-32           Warrantly         extendible up to total of 5 years	Power	f, Class 0, Local power 19 – 27
capacity, Max. voltage relay, Max current relay         one logical output, 30W DC, 60V DC, 1A DC           SIP         RFC 3281, SIP Info (DTMF), RFC 2833 (DTMF)           IP v4 - TCP - UDP - HTTPS - TFTP - RTP -	Connectors	Headset), Pluggable screw
IP protocols  IP v4 - TCP - UDP - HTTPS - TFTP - RTP - RTP - RTP - RTP - PROP - DNMP - DIffServ - TOS - ONVIF - CCOIP® - SIP - RSTP  Power over Ethernet (IEEE 802.3 a- f), VLAN (IEEE 802.1 pg.), Network Access Control (IEEE 802.3 access Control (IEEE 802.1 pg.), Network Access Contr	capacity , Max. voltage relay, Max	one logical output, 30W DC, 60V
IP protocols  -RTP - RTCP - DHCP - SNMP - DiffServ - TOS - ONVIF - CCoIP® - SIP - RSTP  Power over Ethernet (IEEE 802.3 a- f), VLAN (IEEE 802.1pq), Network Access Control (IEEE 802.1x)  Audio technology  Audio technology  Audio output  1.5 Watt - 75 dB @ 1 m from speaker, additional connector for external speaker, max 5 W  HTTPS (Web configuration), DHCP and static IP, Remote automatic software upgrade, Centralized monitoring, Status LED  Advanced features  Dual port managed data switch supporting VLAN and network access control  Compliance  CE and FCC Part 15  IP Rating  IP -32  2 Years standard warranty, extendible up to total of 5 years	SIP	
LAN protocols  f), VLAN (IEEE 802.1pq), Network Access Control (IEEE 802.1x)  Telephony 3.4kHz (G.711), Wideband/HD Voice (G.722), Active noise filtering, Acoustic echo cancellation, Open duplex, Volume override  Audio output  1.5 Watt - 75 dB @ 1 m from speaker, additional connector for external speaker, max 5 W  HTTPS (Web configuration), DHCP and static IP, Remote automatic software upgrade, Centralized monitoring, Status LED  Dual port managed data switch supporting VLAN and network access control  Compliance  CE and FCC Part 15  IP Rating  1-9.32  2 Years standard warranty, extendible up to total of 5 years	IP protocols	- RTP - RTCP -DHCP - SNMP - DiffServ - TOS - ONVIF - CCoIP® -
Audio technology in oise filtering. Acoustic echo cancellation, Open duplex, Volume override  Audio output 1.5 Watt - 75 dB @ 1 m from speaker, additional connector for external speaker, max 5 W  HTTPS (Web configuration), DHCP and static IP, Remote automatic software upgrade, Centralized monitoring, Status LED  Advanced features Dual port managed data switch supporting VLAN and network access control  Compliance CE and FCC Part 15  IP Rating IP-32  2 Years standard warranty, extendible up to total of 5 years	LAN protocols	f), VLAN (IEEE 802.1pq), Network
Audio output speaker, additional connector for external speaker, max 5 W  HTTPS (Web configuration), DHCP and static IP, Remote automatic software upgrade, Centralized monitoring, Status LED  Advanced features Dual port managed data switch supporting VLAN and network access control  Compliance CE and FCC Part 15  IP Rating IP-32  2 Years standard warranty, extendible up to total of 5 years	Audio technology	Wideband/HD Voice (G.722), Active noise filtering, Acoustic echo cancellation, Open duplex, Volume
Management and operation  and static IP, Remote automatic software upgrade, Centralized monitoring, Status LED  Dual port managed data switch supporting VLAN and network access control  Compliance  CE and FCC Part 15  IP Rating  IP-32  2 Years standard warranty, extendible up to total of 5 years	Audio output	speaker, additional connector for
Advanced features supporting VLAN and network access control  Compliance CE and FCC Part 15  IP Rating IP-32  2 Years standard warranty, extendible up to total of 5 years	Management and operation	and static IP, Remote automatic software upgrade, Centralized
IP Rating IP-32  2 Years standard warranty, Warranty extendible up to total of 5 years	Advanced features	supporting VLAN and network
2 Years standard warranty, Warranty extendible up to total of 5 years	Compliance	CE and FCC Part 15
Warranty extendible up to total of 5 years	IP Rating	IP-32
(additional fee)	Warranty	extendible up to total of 5 years

## Accessories

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CRM-V-GN

Gooseneck Microphone for IP Flush Master CRM-V



On-Wall Back Box



Flush Mount Back Box



Single Desk Stand



**Dual Desk Stand** 



Triple Desk Stand



CRM-VH

Headset Solution

### **Used With**



CRM-V-DAK48

48-Key DAK Expansion Module for CRM-V-2



CRM-V-HS

Handset for IP Flush Master CRM-V