AVIRE

AVIRE Solutions

Cellular Gateways

Connecting & Protecting People

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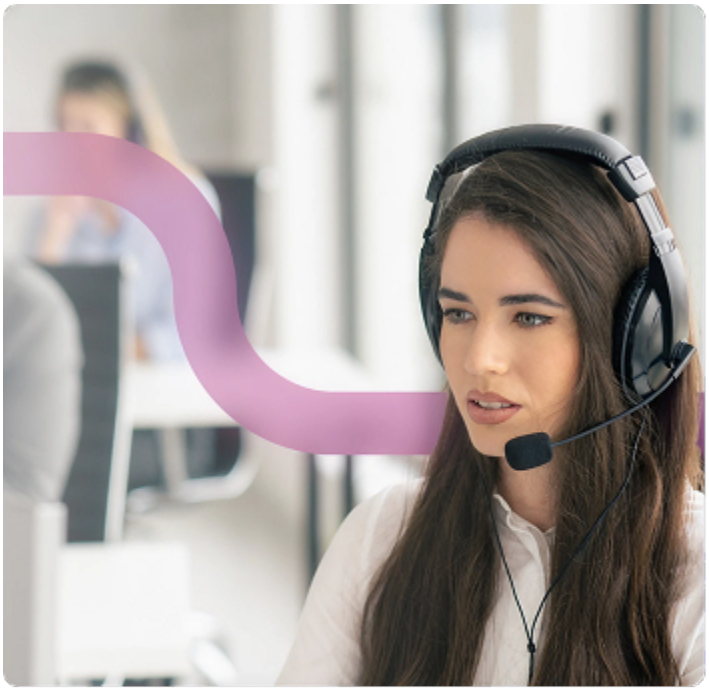
Introduction to AVIRE

AVIRE is a global manufacturer of lift safety and communication solutions, including detectors, emergency telephones, cellular communication devices, and monitoring systems. Our trusted brands are relied upon by engineers, consultants, and building managers worldwide.

AVIRE brings together trusted product names — MEMCO, MICROKEY, RATH, and JANUS — each with a strong legacy in life safety, emergency communication, and lift technology. Operating across key global regions, our teams combine local expertise with global insight to support customers throughout the entire product lifecycle — from planning and installation to long-term service and modernization. Our product portfolio includes advanced light curtains, emergency telephones, cellular communication devices, and remote monitoring systems. AVIRE's reliable solutions are trusted by engineers, consultants, and building managers worldwide to keep lift systems safe, connected, and compliant in a wide variety of environments.



Cellular Gateways

Stay connected, even when landlines are no longer an option. Our Cellular Gateways provide a reliable and secure connection between emergency communication devices and monitoring centres, ensuring critical calls are always transmitted without interruption.

4G VoLTE DCP 2.0 Lift Digital Communication Platform

Overview

Ensure passenger safety and compliance with AVIRE's advanced 4G Digital Communication Platform (DCP) 2.0. Designed to meet the latest EN-81-28 standards, this innovative solution secures reliable, real-time lift emergency communication while adapting to the evolving needs of modern buildings and infrastructure changes. Whether you're upgrading from 2G or seeking a dependable 4G VoLTE connection, the 4G DCP 2.0 is the smart choice to future-proof your elevator emergency systems.

Benefits

- Battery Back-Up for Power Outages & EN81-28 Compliance: Provides up to 3 hours of power during outages, exceeding EN81-28 requirements for emergency communication.
- Monitoring Flexibility: Offers real-time monitoring and remote adjustments via the AVIRE Hub for seamless operation.
- Advanced IoT Communication with MQTT: Enables efficient, real-time data exchange, keeping your system connected and responsive.
- Backward Compatibility: Compatible with both analogue (PSTN) and modern digital phone systems, ensuring smooth transitions and regulatory compliance.
- Cost-Effective Solution: Remote configuration reduces on-site visits, saving both time and operational costs.

features

Full-time connectivity with the Avire HUB

Benefit	Stay informed with real-time data on the status of your lifts, reducing downtime and maintenance visits.
How it works	By connecting with lift controllers or MEMCO products like the Navigation Box, you'll always have up-to-date insights, streamlining monitoring and enhancing overall safety.

Advanced security with data encryption

Benefit	Protects critical lift communication data, enhancing security for building operators and residents.
How it works	Secure data transmission prevents unauthorised access, offering peace of mind in high-security environments.

Supports both 2G & 4G volte

Benefit	Guaranteed continuity as networks switch from analogue PSTN to digital, ensuring reliable emergency communication regardless of the technology transition.
How it works	The 4G DCP 2.0 seamlessly switches between 2G and 4G networks, ensuring uninterrupted communication.

Easy installation and remote configuration

Benefit	Save time and reduce the need for on-site engineer visits, lowering installation and maintenance costs.
How it works	Quickly find the optimal position within the lift shaft and adjust configurations remotely, enhancing operational efficiency.

Technical Specifications

Parameter	Value
Power Input	100/240Vac 50/60Hz
Consumption	7W
Internal Battery	12V/800mAh
Operating Temperature	0º – 45º C
IP Rating	IP21
Dimensions	205.1 x 110.1 x 61.28 mm
Data Network	2G; 4G
Voice Calling	2G; 4G (VoLTE)
Interfaces	RJ-11 (PSTN); CAN; RS-232
SIM Slot	Single (2FF Standard)
Security	TLSv1.2, TLSv1.1, TLSv1.0
Messaging Protocol	MQTT

Order Info

Part	Description
AC-4CM10-611-F-20-000	DCP 845 RS232 EMEA

Files and Resources

Datasheets	4G DCP 2.0 Data Sheet_v1.0_10102024_GB
Install Guides	DCP Install Guide

Scan QR for files

DCP Lift Digital Communication Platform

Overview

Bring your lift emergency telephone system into the digital age with the Avire Digital Communications Platform (DCP).

Benefits

Combining a GSM gateway, lift emergency telephone and M2M gateway into a single device, the MEMCO DCP is the brain of your modern emergency telephone system, allowing you to:

- Manage outgoing emergency calls via a GSM mobile network connection *(rather than a legacy PSTN connection)*
- Remotely configure and monitor the device via the cloud-based **Avire Hub**
- Connect to multiple Digital Audio Units (lift car, top of car and pit) via the 4-wire CAN Bus system, to provide microphone and speaker functionality
- Remotely configure all connected devices and extract lift monitoring data

features

There are three major network changes you should consider when deciding on the most appropriate lift emergency telephone.	The switch from the analogue PSTN to digital planned for 2025 The current phasing out of 3G services by all UK mobile network operators The planned 2G switch by all UK mobile network operators
The latest MEMCO DCP supports both 2G and 4G, meaning your lift emergency telephone is future-proofed for the approaching network changes.	GSM Network Flexibility and Reliability:Supports voice (VoLTE) and data over 4G, with fall back to 2G (2G only variant available) – no PSTN landline required.
(*Avire SIM sold separately)	Ease of Installation:Remote configuration/set-up via the Avire Hub, Avire mobile app or SMS

Technical Specifications

Parameter	Value
Power Supply	220 - 240 VACw
Consumption	1.8 to 10 VA
Internal Battery	12V, 600 mAh, 9 hr
Connections	CAN, RJ-11, RS-232 or RS-422/485
Networks	2G, 4G
Op. Temp.	-40 to +85 oC
Dimensions	210 x 110 x 65 mm

Order Info

Part	Description
AC-2CM10-100-F-20-000	2G Digital Communication Platform - GSM/GPRS/RS-232
AC-4CM10-611-F-20-000	4G Digital Communication Platform - GSM/GPRS/RS-232
AC-ECM10-610-F-20-000	4G Digital Communication Platform - GSM/GPRS/RS-232
AC-ATM00-050-0-00-000	5m Extension Antenna
AC-ATM00-150-0-00-000	15m Extension Antenna
AC-DAT18-110-F-0L-000	TOC DAU
MC-SMM00-124-0-00-EU0	12 Month Voice & Data 100MB VoLTE SIM
MC-SMM00-125-0-00-EU0	24 Month Voice & Data 100MB VoLTE SIM
MC-SMM00-126-0-00-EU0	36 Month Voice & Data 100MB VoLTE SIM
MC-SMM00-127-0-00-EU0	60 Month Voice & Data 100MB VoLTE SIM
AC-ABV10-100-0-00-000/ABV10-100-0-00-000	Universal Power Supply and Battery Backup
AC-ASM00-100-F-00-000	CAN Bus Splitter

Files and Resources

Certifications	Declaration of Conformity Memcom+ Emergency Telephone
Datasheets	4G DCP 2.0 Data Sheet_v1.0_10102024_GB
Install Guides	4G DCP 2.0_Installation Guide_(GB)_v1.0_10102024
Support documents	How to program a guidance location message DCP and DAU Installation Global V02 Call Centre Instructions DCP and DAU Global V02

Scan QR for files

AVIRE M2M Lift SIM Card

Overview

The AVIRE Machine to Machine (M2M) lift SIM cards provide your lift with a reliable connection at all times. These cards connect automatically to all major network providers ensuring the strongest signal and won't be disconnected due to low usage.

Benefits

- Tailored for the lift industry: Operates seamlessly in extreme temperatures and endures vibrations.
- M2M Reliability: Say goodbye to unexpected disconnections caused by low usage.
- Non-steered and fully roaming: Automatically identifies and connects to the most robust signal available, ensuring a consistently reliable connection.
- Pre-activated with remote renewals: Minimize hassle and call-out fees with easy, remote renewals for uninterrupted service.
- Calls and Data included with usage monitoring: no more unexpected high bills
- Flexible Plans: Choose between pay upfront/fixed term or subscription plans that suit your needs.
- When paired with our AVIRE DCP: efficient Use (One SIM supports up to 4 lift alarms).
- Remote Monitoring (Gain access to our advanced remote monitoring platform - the Avire Hub)

SIM vs SENTINEL

AVIRE SIM Card

Fixed Term Contract
Pay upfront for a fixed term of either 12, 24, 36, 60 months

SENTINEL - Annual SIM subscription

Part	Description
Flexible payment options	Choose to pay either monthly, quarterly or annually.
Auto renews at end of term	ensures your lifts remain connected, saving you potential call out fees.
	One plan, one renewal date, one invoice - no matter how complex your SIM estate is. Align all your SIMs under one plan and get rid of the hassle and that spreadsheet…

Order Info

Part	Description
MC-SMM00-124-0-00-EU0	12 Month Voice & Data 100MB VoLTE SIM
MC-SMM00-125-0-00-EU0	24 Month Voice & Data 100MB VoLTE SIM
MC-SMM00-126-0-00-EU0	36 Month Voice & Data 100MB VoLTE SIM
MC-SMM00-127-0-00-EU0	60 Month Voice & Data 100MB VoLTE SIM

Files and Resources

Datasheets	Memcom and Accessories Information Sheet V05 (GB)

Scan QR for files

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