

Outdoor Cabinet Type1

KEYMILE's versatile outdoor cabinets provide operators tailored solutions for the deployment of NGN, broadband and Triple Play services



Outdoor Cabinet Type1

- A turnkey solution – fully integrated prior to delivery on site
- Flexible configurations offering a wide range of service options
- Enhanced scalable thermal management provides reliability due to a stable thermal environment
- Rapid prototyping and fast deployment of custom tailored cabinets
- Scalable power supply with battery back-up
- Reduced operating costs - minimal maintenance requirements

KEYMILE's outdoor cabinets are compact self-contained exterior housings, which enable the MileGate and UMUX Multi-Service Access Nodes to deliver managed services to business and residential markets.

The cabinets are compliant with recognised international standards that cover the ETSI geographic area.

The cabinets have been proven in the harshest of environments and have integrated thermal, environmental and battery management capabilities.

■ Outdoor Cabinet Type1

KEYMILE's environmentally hardened outdoor enclosures are designed for ease of installation in rural and urban outdoor locations where space is at a premium and security is essential.

Our cost-effective outdoor enclosures are built for KEYMILE's MileGate and UMUX portfolio to seamlessly deliver POTS/ISDN services with V5.x and NGN connectivity up to broadband and triple play services.

Through experience gained working closely with operators, KEYMILE has developed a valuable understanding of the issues relating to deployment of electronic equipment in outdoor cabinets. The enclosures with their equipment arrangement can easily be adapted to specific customer requirements while retaining rapid prototyping and reduced time to market.

The basic designs have been exhaustively tested and are certified to conform to the relevant telecommunication industry standards and specifications.

Each outdoor enclosure provides IP-55 ingress protection against dust and water.

The cabinets are also designed to withstand attacks of vandalism and forced entry.

■ Main features of Type1

- The outdoor enclosure has double front doors, and is manufactured based on robust aluminium double wall extrusions with skinned surfaces
- Temperature controlled heat exchanger situated on top of

the enclosure and active ventilation of the electronic equipment inside the cabinet

- Monitoring of heat management, power supply and mechanical integrity (doors etc.) of the cabinet and alarming via MileGate / UMUX management system
- No access to mounting elements from outside the cabinet. The front doors include swing handles, fitted with cylinder locks of your choice

- Hinges are hidden and manufactured in cast aluminium to provide maximum security
- The doors are fitted with a robust mechanism to secure the open doors in any position up to 180°
- The cabinets are supplied as standard with EMC protection
- Finish to all outer surfaces is powder-coated (standard RAL 7035)
- Two cabinets can be combined to one physical cabinet entity

Technical Data

Key Features	
Environmental	Ambient temperatures from -25°C up to +45°C with solar loading with optional 950 W heater for low temperature areas
Construction	Double wall aluminium extrusions, cabinet with front doors IP-55 rating against dust and water Secure separate compartments for the electronic parts, terminations and battery
Powering	Mains powering with battery backup Power back-up includes operation of heat exchanger and heat management
Thermal Management	
Heat exchanger	Roof mounted scalable, closed air loop design with exchange capacity of up to 120W/K
Optional 950W heater	Fan assisted design including thermostat control to raise internal temperatures during cold start conditions
Powering System	
Power connection	Max. 4kW at 230VAC 3-phases (including heater 950W)
Power consumption	Max. 2.2kW for cabinets with fully equipped MileGate equipment
Power dissipation	Max. 1.5kW of internal dissipation (depending on equipped features)
Power converters	Max. 3 concurrently working units (n+1 protection possible) with a capacity of 1200W each
Battery backup time	4 hours
Connectivity	
Main Distribution Frame (MDF)	2 x 128 terminals for the connection of up to 1280 subscriber circuits Terminals optionally equipped with lightning protection modules (5kA at 230V)
Optical Distribution Frame (ODF)	OptoBox with up to 12 double optical connectors LC (MileGate standard)
Alarming	
Power supply	AC fail, rectifier fail and battery low
Temperature control	Fan failures in exterior and interior circuits High and low temperature
Mechanical	Door(s) open
Dimensions	
External (w x h x d)	1500 mm x 1780 mm x 500 mm



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