

sygno-fi
ENHANCED



SYGNO-FI ENHANCED EXPANDER MODULE

(SYG-EM-EHD, SYG-EM-B-EHD)

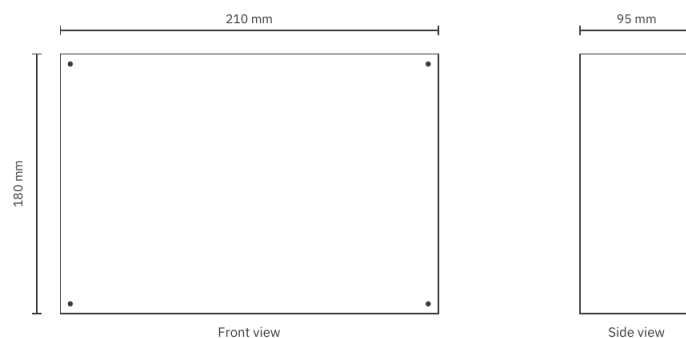
The Sygno-fi Enhanced Expander extends wireless range by relaying signals between translators and devices, enabling large fully wireless systems or coverage in areas where cabling isn't possible. It supports redundant communication paths, automatically rerouting signals if a link fails, and these paths are verified during commissioning for maximum reliability.

Using paired RF channels and full device monitoring, the expanders deliver stronger resilience, cleaner signals and higher system integrity. It is available in a black variant (SYG-EM-B-EHD), see the variants section for details.

KEY FEATURES

- Compatible with all intelligent and conventional translators
- Mounting plate for first fix installation
- Bidirectional wireless communication with integrated dual antenna
- 8 pairs of infrastructure channels and 22 pairs of channels for field devices
- Dual channel and dual path redundancy
- Long communication range (approximately 1 km in open air)
- Internal antennae design protects from environmental conditions, vandalism, accidental damage or misuse
- Requires external power supply unit
- Low current consumption
- Rich fire data transfer to translator (eg optical and thermal value, link quality, battery status, chamber drift compensation status)
- Up to 32 wireless field devices per expander
- Easy scan and link programming option
- External PSU status supervision
- 3rd party approved
- 5 year product warranty
- Fully synchronised system that optimises battery consumption and enables easy integration with third party platforms (for example, EVAC systems)

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

General	
Operating frequency range	868 MHz to 870 MHz
Power supply range	9Vdc to 30Vdc
Max radiated power	14dBm (25mW)
IP rating	IP30
Operating Temperature	-10°C to 55°C
Max humidity (non condensing)	90% RH
Typical current consumption	25mA (at 12V dc)
Weight	590 g
Dimensions	210 mm x 180 mm x 95 mm

STANDARDS & APPROVALS

- EN 54-18: Input/output devices
- EN 54-25: Component using radio links

OTHER VARIANTS AVAILABLE

- SYG-EM-EHD: white housing
- SYG-EM-B-EHD: black housing

All equipment must be designed, installed, maintained and serviced by a competent person to ensure warranty validity.