

SYNECTIX™

Omni-Wireless sub-GHz RF Mesh Network Monitored System

SYNECTIX RF™ is a cloud-based, wireless mesh network with true self-healing properties for emergency lighting monitoring, control and management that offers building owners, maintenance managers or service agent's total control over their assets and public safety obligations, and helps manage an emergency lighting system effective and efficiently.



A SYNECTIX RF™ network consists of a number of "areas", each of which is managed by its own dedicated Smart Gateway (STARGATE). A RJ45 data cable connects each STARGATE to a centralised Local Area Network (LAN) or, if this is non-existent then, to a Wireless Router. The STARGATE regularly performs diagnostics and collects data from each connected device, and also schedules polling and discharge tests.

The electrical contractor shall supply, install and commission a SYNECTIX Radio Frequency (RF) Emergency Lighting Monitoring System. This system shall employ an RF protocol that links and manages communication between SYNNOVATE emergency luminaires and the STARGATE for that communication branch. All exit signs, emergency luminaires, system hardware, and ancillary equipment necessary to ensure the proper functioning of the system shall be included.

The SYNECTIX RF™ System is to be installed in accordance with the manufacturer's specification, the Building Code of Australia, AS/NZS3000 and AS2293:2018. The emergency luminaires and exit signs shall be SYNNOVATE SYNECTIX-compatible fittings suitable for monitoring by SYNECTIX RF™ software.

Smart Gateway (STARGATE) specification:

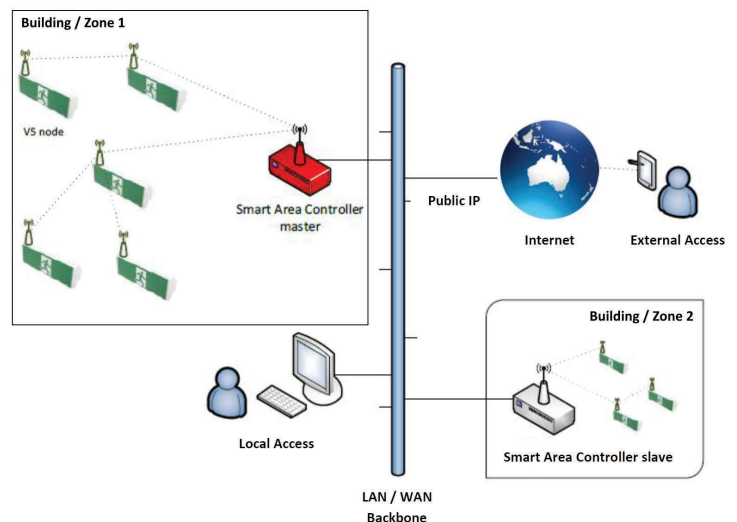
- STARGATES shall be distributed throughout the building in accordance with the manufacturer's recommendations.
- Each STARGATE can monitor up to 1000 exit or emergency light fittings via RF
- Allow local monitoring, testing, commissioning, scheduling and reporting of tests
- Over The Air Updates (OTAU) for easy upgrade / update of firmware nodes
- Communicate either directly over the existing LAN/WAN architecture, or via modem or a network interface card



Part number: ETS-STARGATE

	Feature
Processor	Sitara AM3358BZCZ100 1GHz, 2000MIPS
Graphics Engine	SGX530 3D, 20M Polygons/S
SDRAM Memory	512MB DDR3L 800MHZ
Onboard Flash	4GB, 8bit Embedded MMC
PMIC	TPS65217C PMIC regulator and one additional LDO.
Debug Support	Optional Onboard 20-pin CTI JTAG, Serial Header
Power Source	miniUSB USB or DC Jack 5VDC External Via Expansion Header
PCB	3.4" x 2.1" 6 layers
Indicators	1-Power, 2-Ethernet, 4-User Controllable LEDs
HS USB 2.0 Client Port	Access to USB0, Client mode via miniUSB
HS USB 2.0 Host Port	Access to USB1, Type A Socket, 500mA LS/FS/HS
Serial Port	UART0 access via 6 pin 3.3V TTL Header. Header is populated
Ethernet	10/100, RJ45
SD/MMC Connector	microSD, 3.3V
User Input	Reset Button Boot Button Power Button
Video Out	16b HDMI, 1280x1024 (MAX) 1024x768, 1280x720, 1440x900, 1920x1080@24Hz w/EDID Support
Audio	Via HDMI Interface, Stereo
Weight	40g

Example installation:



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