



# 3GS LEM NODE

## Upgrading existing Apex systems:

The primary requirement for a LEM Node is to allow fast and easy upgrading of an existing Apex installation to 3GS, without necessarily having to rewire the site.

By simply replacing the Apex control panel and RKD with a 3GS controller and RKD Node, and placing a LEM Node on the ringnet cabling, all existing LEMs and Apex input / output modules may be monitored via the LEM Node. The LEM Node does not support Apex RKDs.

## LEMs, I/O modules compatibility:

All LEMs and I/O modules are compatible with the LEM Node. That is:

- A LEM / ADLEM
- SMT or Hybrid LEM
- Quad LEM
- C LEM
- Combo LEM
- Key Combo LEM
- 8+1 I/O Module
- 8+4 I/O Module
- 6+6 I/O Module
- 6 Output Module

## LEM recoding:

This is not necessary, as the 3GS system simply treats the LEMs as Node inputs (and C LEMs as Node outputs).

## Multiple LEM Nodes:

It is recommended that no more than 2 LEM Nodes be connected to a single 3GS system.

## LEM Node connection:

The 3GS Ring-net connection is a twisted pair in and out, while the LEM line is a 3-core connection of LEM Ground / Control / Data, with an optional 0V/12V.

## Cable distance & type supported:

It is recommended that no more than 750 metres of standard unscreened alarm cable (capacitance <100pf / km) be connected to a single LEM Node. If two LEM Nodes are used on a 3GS system, each can support up to 750 metres. If screened cable is used, it is likely that less than 50% of this recommended distance will be attainable.



## On-board buzzer:

The LEM Node has its own buzzer on-board, to assist its location during service visits, should it have been placed out of normal view. Using the "Node Find" option, the service technician can request the Node to identify itself by sounding its buzzer.

## IR Communications:

The LEM Node supports communications with the 3GS Hand Held Terminal (HHT), once the lid of its housing has been removed.

## Installing the LEM Node:

The LEM Node must be powered by its 1A linear power supply, and NOT by the 3GS switch-mode PSU. Powering the LEM Node from the 3GS PSU can cause interference on the LEM data line and must be avoided.

The LEM Node is delivered in a metal enclosure, together with its 1A PSU. It should, therefore, be left in this enclosure, and not installed in the 3GS cabinet, to avoid any PSU conflict.

If two LEM Nodes are installed on the same 3GS system, they should be powered separately by their own 1A PSUs.

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## 3GS LEM Node: Technical Specification:

PCB Dimensions:	150mm x 110mm x 20mm
Box Dimensions:	355mm x 237mm x 175mm
Power consumption:	90mA (no load)
Input voltage:	12VDC
Front spring tamper, with override link.	
IR transmit & receive.	@ 1200 Baud
Ringnet communications status LED.	@ 307k Baud

## How to order:

Product	Code
3GS LEM Node Boxed	1338

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